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1620 USERS GROUP PROGRAM REVIEW AND EVALUATION

Pro	ogram No.	Date			
Pro	gram Name:				
1.	Does the abstract adequately describe what it does? Comment	Yes_	_No		
2.	Does the program <u>do</u> what the abstra	Yes_	No		
3.	Is the Description clear, understand Comment	able, and adequate?	Yes_	No	
4.	Are the Operating Instructions under detail? Comment Are the Sense Switch options adequate Are the mnemonic labels identified ounderstandable? Comment	Yes_	No No No		
5.	Does the source program compile sa	Yes_	No		
6.	Does the object program run satisfac	Yes_	_No		
7.	Number of test cases run Are any restrictions as to data, size adequately in description? Comment	Yes_	_No		
8.	Does the Program meet the minimal Group? Comment	Yes_	_No		
9.	Please list any suggestions to improve the usefulness of the program. These will be passed on to the author for his consideration. Comment				
Ple	ase return to:	Your Name			
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PDQ FORTRAN

(An Interpretive Program for the Fortran Language)

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November 15, 1963

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1620 USERS GROUP LIBRARY PROGRAM ABSTRACT

TITLE: PDQ FORTRAN (An Interpretive Program for the Fortran Language)

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Description/Purpose: PDQ FORTRAN is a modification of the UTO Fortran and Fortran with Format, which utilizes floating point variables in the "excess 50" notation. In the hundred plus programs compiled to date by the system, the object time running is less, the size of the object deck is smaller, and core storage requirements for the object program, subroutines, and data is less than any other Fortran system without floating point hardware.

Specifications:

- A. Storage Used by Program: The Processor requires 18008 digits permitting 199 symbol table entries on 20K, 2199 symbol table entries on 40K. Class "A" Subroutines for the object program require 6600 digits. Instructions of the object program begin loading in location 6600.
- B. Equipment Required by Program: Card System; Auto Divide.

 Program will operate on 20K and will internally adjust for any additional storage available. Programs may be compiled on a machine 40K or greater, for a machine of lesser capacity by means of a control digit.
- C. The Processor and Subroutines are written in SPS and then compressed.

Additional Remarks: Any program in FO-004 language may be compiled in the system; however, additional language facilities are included. The FO-OO4 language has been expanded in the PDQ FORTRAN system to include: (a) COMMON statement for reserving locations in the symbol table for nonsubscripted and subscripted variables, (b) batch compilation of programs without subroutines, (c) continuation cards for Format and input/output statements, (d) repetition of field format (nFw.d) etc .-- Format also includes an A and a D specification, (e) listing or punching of referenced source statements and symbol table, (f) PROCEDURE statements permitting a group of Fortran statements to be utilized as a subroutine similar to the Fortran II Subroutine subprogram, (g) TRACE facility without generating additional instructions in line and including the address as well as the magnitude of the variable at running time, -- The format of TRACE at object time may be altered by a single instruction, (h) two subroutine decks, one permitting a relaxed input format requiring only that a space or blank column separate input variables, and the second requiring input data to be in the precise format of the input statements---Either subroutine deck may be used with the compiled object program depending on the format of data to be used.

DECK LABELS

DECK 1: PDQ FORTRAN Processor C2 consisting of 245 cards.

DECK 2: PDQ FORTRAN Subroutines Free Form (11-63) for (former without lawn)

Relaxed Input Format consisting of 246 cards.

Cards 0 thru 47 constitute the Subroutine Relocator.

Cards 1000 thru 7017 constitute Relocatable

Subroutines with the system. Cards 24000 thru 24109

constitute the Class "A" Subroutine Package.

DECK 3: PDQ FORTRAN Subroutines Fixed Format (11-63) consisting of 248 cards for input of data conforming to the precise input format specification. Cards 0 thru 47 constitute the Subroutine Relocator. Cards 1000 thru 7017 constitute tute Relocatable Subroutines with the system. Cards 25000 thru 25111 constitute the Class "A" Subroutine Package.

DECK 4: Sample PDQ FORTRAN Test Scurce Deck

DECK 5: Sample Data for Free Form Input

DECK 6: Sample Object Deck compiled from DECK 4.

DECK 7: PDQ FORTRAN Processor CLC2 consisting of 236 cards.

DECK 8: PDQ FORTRAN Processor CLT2 consisting of 236 cards.

Introduction

The PDQ FORTRAN system follows the language features of Fortran with Format, FO-OO4. However, the variables of this system are in "excess 50" notation, a characteristic of Fortran without Format, FO-OO2. The object deck prepared is of minimum size which may optionally have the subroutines punched immediately thereafter or which may have the subroutines loaded at object time running. Two alternate processors are available in the system to provide a larger symbol table at compile time---- See System Options.

Fortran Specifications

Any program written in FO-OOh language can be run in this system without additional change. However, additional statements are possible in this system as elaborated hereafter.

Permissible Statements

A. Arithmetic Statements:

$$A = B \text{ op } C \text{ etc.}$$

B. Control Statements:

- 1. GO TO n
- 2. GO TO $(n_1, n_2, ---- n_m)$, i
- 3. IF (a) n₁, n₂, n₃
- μ_{\bullet} IF (SENSE SWITCH i) n_{1} , n_{2}
- 6. BEGIN PROCEDURE n
- 7. RETURN n
- 8. END PROCEDURE n
- 9. EXECUTE PROCEDURE n
- 10. CONTINUE
- 11. CONTROL m
- 12. PAUSE
- 13. STOP m
- 14. END

- 15. BEGIN TRACE
- 16. END TRACE
- C. Input/Output Statements:
 - 1. READ n, list
 - 2. PUNCH n, list
 - 3. ACCEPT n, list
 - 4. PRINT n, list
 - 5. TYPE n, list
- D. Specification Statements:
 - 1. COMMON
 - 2. DIMENSION
 - 3. FORMAT
- E. Fixed Point Arithmetic

The operators + , - and * in the fixed point mode give results MOD 10000. Hence, the addition of 9998 and 4 gives 2 with no error detection due to the overflow. Should division by 0 be attempted, an error overflow will be indicated.

- F. Relocatable Subroutines
 - 1. SIN and COS evaluates sin (x) or cosine (x)

Method - Hastings approximation with improved reduction to first quadrant.

Length - 650 digits

Speed - 128 msec.

Accuracy - Error not more than one in last digit of mantissa for all angles, except sine of angles near $\pi/2$ and cosine of angles near zero, when error occasionally reaches two in last digit.

Note: If all significance is lost, typewriter will indicate OFLO.

2. EXP - evaluates eX

Method - Addition loop successively multiplies 1.0 by 2, 1.1, 1.01, 1.001, and 1.0001, reducing argument by the logs of those factors until argument mantissa is less than 0.0001; approximation $\exp(x) = 1 + x$ is then used.

Length - 500 digits

Speed - 76 msec.

Accuracy - Error not more than one in last digit of mantissa for positive arguments, not more than two for negative arguments.

3. LOG - evaluates loge x

Method - Addition loop successively multiplies argument by 2, 1.1, 1.01, 1.001, and 1.0001, accumulating negative logs of those factors until argument mantissa is greater than 0.9999; approximation $\log x = x - 1$ is then used.

Length - 568 digits

Speed - 79 msec.

Accuracy - Error not more than one in last digit of mantissa for arguments greater than 2.0 or less than 0.9; for arguments closer to one, loss of accuracy is inevitable, but routine is always more precise than is x - 1.

4. SQRT - evaluates \sqrt{x}

Method - Odd-integer method generating result by adding complements.

Length - 360 digits

Speed - 116 msec.

Accuracy - Perfect, rounded to an eight-digit mantissa.

5. ABS - evaluates |x|

Method - Load dividend to FAC.

Length - 20 digits

Speed - 1 msec.

Accuracy - Perfect

6. DRH - drops decimal digits of a variable

Method - Obvious

Length - 172 digits

Speed - 5.5 msec.

Accuracy - Perfect

7. ATAN - evaluates $\arctan(x)$. Result is in the range $-\frac{\pi r}{2} \le \arctan(x) \le \frac{\pi}{2}$

Method - Table look-up and reduction of argument to less than O.1; three-term Chebyshev approximation is then used. Result is complemented (if necessary) in fixed-point avoiding loss of last digit in FSB.

Length - 818 digits

Speed - 126 msec. for argument less than 1 178 msec. for argument 1 or over

Accuracy - Error not more than one in last digit of mantissa.

Additional Specifications

A. PROCEDURES

A procedure is defined as a group of FORTRAN statements which are to be executed as a unit more than once in any larger program. Such a group of statements is preceded by a statement

BEGIN PROCEDURE n

where n is a procedure number. This number must not appear anywhere in the program as a statement number, and cannot be used in more than one procedure. N.B.

The procedure statements must be followed by the statement

END PROCEDURE n

where n is the procedure number of the preceding procedure.

The procedure n may be executed at any time by the statement

EXECUTE PROCEDURE n

which transfers control to the statement immediately following the BEGIN PROCEDURE n statement and obeys the statements of procedure n until

- a) the END PROCEDURE n statement is executed, which transfers control to the statement immediately following the EXECUTE PROCEDURE n statement that entered the procedure:
- b) a RETURN n statement is executed. This returns control to the statement immediately following the EXECUTE PROCEDURE n statement that entered the procedure. A RETURN statement is valid only within the procedure from which it returns control.

Any statement may be included within a procedure, including EXECUTE PROCEDURE statements referring to other procedures, except:

- a) BEGIN PROCEDURE, RETURN, or END PROCEDURE statements referring to other procedures.
- b) EXECUTE PROCEDURE referring to the procedure within which it is placed.

B. CONTROL m

This statement controls the typewriter carriage.

m = 101 spaces typewriter

m = 102 returns typewriter carriage

m = 108 tabulates

C. PAUSE

The program execution is halted by a 48 OP CODE in the main line program. The "P" address of the instruction contains the address of the halt instruction. Depression of the "START" key will cause the computer to continue to the next program instruction.

D. STOP m

The program execution is halted after the carriage is returned and STOP m is typed. If m is omitted, STOP 0000 will be typed. Depressing "START" will cause the computer to continue to the next program instruction.

E. END

The program execution is halted after the carriage is returned and END is typed. Depressing "START" will cause the carriage to return and END to be typed.

F. TRACE

The results of all arithmetic statements may be traced without the generation of any additional instructions. Replacement type statements,

that is: A = B; C = D(K); I = J; will not be traced since no arithmetic operation is required and, hence, FAC is not used. If the replacement statement includes a subscripted variable on each side of the equality, the statement may be traced. The tracing at object time is by the use of SWITCH h.

BEGIN TRACE will turn on the trace feature. This will replace the normal FMFAC instruction (26 ADDR, FAC) with a combination "FMFAC-TRACE" instruction (17 FMTR, ADDR). Each arithmetic statement thereafter will permit tracing. Tracing will be terminated when an END TRACE card is encountered. Succeeding statements will not be traced until another BEGIN TRACE is read.

G. PRINT

Print n, list will cause the variables in the list to be printed according to the format specification n after a carriage return has been executed. This conforms with the print statement of FO-OO4. No indexing is permissible within the list.

H. TYPE

Type n, list performs the same function as Print n, list with the exception that no carriage return will be executed prior to the output of data. This will permit the printing of columns of data utilizing the typewriter tab settings and the Control 108 statement.

I. INPUT/OUTPUT LISTS

If the length of the list in an input/output statement requires more characters than are available before column 73, the list may be continued on the next card. Terminate the partial list preceding a continuation with a comma. The next card must have a digit punched in column 6 followed by the continuation of the list. The use of more than 3 or 4 continuation cards may generate a format string exceeding 460 digits which will destroy the compiler. Hence, some discretion is required.

J. COMMON

The common statement is followed by a list of variables whose object time addresses will begin in the first symbol location after the function symbols. This will enable the assignment of addresses to symbols common in several programs. Dimension variables which are listed in common statements will have the necessary space reserved and must not be again listed in a Dimension statement. CAUTION: The Common statement(s) must be the first compiled statement in the program.

Example: COMMON A,B,C,D(2,4),E

K. FORMAT

Two subroutine decks are included with this system to permit input data to be in either a fixed format or a relaxed format. Should a desired set of specifications require more characters than are available on the format card, the specifications may be continued on the next card beginning in column 7. A digit must be punched in column 6. A single format specification may not be split between cards. Any format card to be followed by a continue card should terminate with a comma in anticipation of another format specification. The duplication of the format statement number on continuation cards in columns 1 thru 5 is optional.

Permissible format specifications include I type (Iw), F type (Fw.d), E type (Ew.d), D type (Dw), A type (Aw), X type (wX), and H type (wH). All of the numerical field specifications and the A specification may have fields repeated by preceding the specification by the number of required repetitions such as (3F10.2) which is the equivalent of (F10.2,F10.2,F10.2).

I TYPE: The I specification defines a field of w characters from which or into which data will be transferred. The data must be in fixed point notation (maximum of 4 digits), however, the field width, w, is not so limited. On output, the sign of the variable will precede the digits, hence, a minimum field width of 5 is required to insure complete output of a fixed point number. Should the field width be less than one plus the digits to be output, the low order digit or digits will be lost and the output data will be in error.

Example: Fixed point number minus 144 is output under an I3 specification. The result will be -14 which, of course, is incorrect.

F TYPE: The F specification defines a field width of w characters from which or into which floating point data will be transferred. If a decimal point is not included in input data, the last d characters of the field will be recognized as decimal digits. On output, if the numerical value of the variable requires a field width greater than w to permit all non-decimal digits to be output, the specification will be automatically changed to an E type specification so that the output data will be complete.

Example: +1728. is the output under the specification (F6.0) of a variable. Had the specification been (F5.0), the output would have been +.17280000E+04.

Variables in E type notation may be input under the F type specification.

E TYPE: The E specification permits the input or output of a floating point variable in the exponential form; that is, +.XXXE+XX. On output, 6 characters of the field are required for the sign, the decimal point, and the exponential notation.

Variables in F type notation may be input under the E type specification.

D TYPE: The D type specifications permit input or output of data of floating point variables in "excess 50" form. Only two forms of the D specification are acceptable: DlO for floating point numbers which will permit transfer of a variable numbered 12. as 5212000000, and Du which will permit transfer of a fixed point number such as -123 as 0123.

A TYPE: The A type specification permits the input or output of up to five alphameric characters. The alphameric characters are converted to their two digit form and stored in the symbol table as a 10 digit floating point variable. The width of the A field must not exceed 5 and the number of alphameric characters output will be determined by this field width designation. The input of characters under the A specification varies according to the subroutine deck which is being used; that is, fixed format or relaxed format.

X TYPE (BLANK FIELD SPECIFICATION): Blank characters may be provided in an output record by means of specification wX where w is the width of the field to contain blanks. When the X specification is used with an input record, w characters are ignored.

H TYPE: The specification wH permits the w alphameric characters immediately following H in the specification to be input or output. CAUTION: The characters of an H specification may not be split on two cards. Should more characters than are available on a given format card be required in an H specification, the H specification on the first card must include the count of the characters on the first card only and a new H specification must be stated on the format continuation card for the remaining desired characters.

Free Form Input Subroutine Deck (Relaxed Format)

The input accepted by this subroutine deck has been relaxed so that variables need not correspond precisely with the field widths defined by the input format specification. The only requirement for the entry of data is that a space or blank column exists between data.

The Free Form Subroutine deck requires that the letter E follow immediately the last digit of the mantissa when a variable is in the E form and no blanks are permitted until after the last digit of the exponent or the entry will be erroneous. Hence, the only acceptable E notations are MM-ME+XX, MM-MEXX, MM-MEXX, MM-MEXX, MM-ME-XX where M represents mantissa digits and X represents exponent digits.

See Free Form Input Subroutine Deck and Fixed Format Input Subroutine Deck for variations of input in this specification.

The A format input will select the next non-blank and the four following characters. These will be converted to two digit notation and placed into the variable. For this reason, regardless of the field width of the A specification, an A specification on input will always be executed as A5 regardless of the field width which has been specified. The output, of course, will conform to the specific format specification.

Fixed Format Input Subroutine Deck

When data cards contain information in a specific format observing a correlation between card columns and the variable fields, the fixed format input subroutines may be utilized. By means of these subroutines, data may be packed on cards and a digit in only one column between adjacent punched columns may be recognized as a complete input variable. On output, a single column is insufficient to represent a variable since the sign of the variable will always precede the first digit.

The Fixed Format Subroutines will extract a variable from the specified field width, w, filling in any blanks with zeros. The exponent digits must be right justified and may be preceded by the sign, optional if +, and the letter E or a blank. Hence, the following are all acceptable forms of the exponent in the fixed format input where b denotes a blank; b2 bl2 E+02 Ebl2 -2 Ebb2 bbb2 -b2

Alphameric data read in by the A format specification may be extracted from one to five columns. However, when the variable is stored in the symbol table, blanks will be filled in to complete the 10 digit symbol. There is no restriction on the characters read by the A specification; however, should leading blanks or special symbols be used in the first two columns, erroneous results may be incurred should the field be used in compare or arithmetic operations.

The PDQ FORTRAN Object Deck See System Options #2

The size of the output (object) deck will be materially altered by the use of PROGRAM SWITCHES 2 and 3.

PROGRAM SWITCH 2 OFF will cause a card to be punched for each card in the source deck. This card will contain the location of the first instruction compiled by the statement and then the entire statement. These referenced source statement cards will be intermingled with the object program instruction cards and symbol table entry cards but may be identified by an 11 (X) punch in column 2. After the END statement is processed, the symbol table will be punched, seven symbols per card with the address of the first character of the first symbol on the card punched in columns 2 thru 6. Column 2 also contains an 11 (X) punch. On completion of the compilation, all referenced source statement cards and referenced symbol cards may be removed from the output deck by sorting on an 11 (X) punch in column 2. The off line listing of these cards provides a ready reference to statement locations and symbol locations of the source program at execution time. It is not necessary to remove these referenced cards prior to loading the object deck since the loader will simply disregard their presence.

PROGRAM SWITCH 3 OFF will cause the punching of all relocatable subroutines and the input/output and arithmetic subroutines into the object deck. This will also prevent a subsequent processing of a source program without reloading the processor. With program switch 3 ON, the subroutine deck will be called for and must be loaded at object running time. This also permits the batch compilation of several source programs.

Makeup of the Processor Deck See System Options #2

The first two cards of the Processor deck will zero core of any size memory. The next seven cards constitute the loader for the remainder of the Processor and the add tables. The remainder of the cards up to the fifth or sixth from the end are identified by the first five digits punched into the card. These are the addresses into which the sixth digit of the card will be placed. These numbers should be recognized as the card number. The last card or two cards as may be required, contain the names of the Relocatable Subroutines available. The preceding four cards constitute a control card beginning zero, recordmark, and the next three—the multiply tables.

Makeup of the Subroutine Deck

The makeup of the Subroutine deck is as follows: The Subroutine Relocator constitutes the first 48 cards numbered from 000000 to 000047. After this, the Relocatable Subroutines follow with the subroutine number in the thousandths positions. After the last relocatable subroutine is the Class "A" Subroutine deck which is numbered 24000 thru 24109 for the Free Form Input Subroutine deck. For the Fixed Format Subroutine deck, the Class "A" Subroutines are numbered 25000 thru 25111. Additional relocatable subroutines to either of the subroutine decks should be located immediately prior to card 24000 or 25000.

System Options

There are frequently many variations of a Fortran System satisfying the needs and desires of different users of the systems. The following variations include the more common and more feasible alterations which may be wanted.

1. Compile for the 1620 of Smaller Capacity

The PDQ FORTRAN system examines memory of the computer on which it is being used, determines the memory size, and proceeds to adjust itself for that memory. Should it be desired to confine the object program to a smaller memory size, the digit 2, 4, or 6 for memory capacity of 20, 40, or 60 thousand should be located in column 71 of Card 17974 of the Processor. No alterations are necessary in the Subroutine deck regardless of whether it is compiled with the object program or whether it is read in at object time running.

2. Enlarging the Symbol Table

It is recognized that the available symbol table on a 20K machine is materially reduced from the symbol table of other systems. For this reason, the system includes two alternate processors. In addition to the changes below, neither of these processors will produce as the first two cards of the output deck the zero core procedure normally output by the processor, PDQ FORTRAN C2.

"PDQ FORTRAN CLC2" processor does not contain the facility for punching referenced source statements and symbol table under control of Switch 2. By eliminating this feature, the symbol table on a 20K machine accommodates 260 symbols.

If the referenced source statements and symbol table are desired on cards, the processor "PDQ FORTRAN CLT2" may be used. In this processor, the facility of listing the symbol table on the typewriter has been eliminated. This processor will accommodate 265 symbol table entries on a 20K machine.

3. Elimination of Printed Statement in Listing

The address of the first instruction of each statement may be listed without listing the entire statement by changing columns 26 thru 32 of Card 00842 from 3917497 to 3816239.

4. Source Program Record Length of 80 Characters

The Processor permits card identification or sequence numbers to be located in the source cards in columns 73 thru 80. Hence, statements punched onto cards must not go beyond column 72. If it is desired to use all 80 columns of a card for source statements, change Card 00538 of the Processor, columns 48 and 49 from 55 to 71.

5. Change in Length of Input/Output Record

The PDQ FORTRAN Processor presently checks the record width specified in a FORMAT statement and will generate an Error 12 if 80 characters are exceeded. Should it be desired to alter this maximum record width, on Card 02961 of the Processor, insert in columns 27 and 28 the maximum record to be permitted. Caution: A flag must exist in column 27 and the character count cannot exceed 99.

6. Printing of Plus Signs on Output Data

If it is desired that plus signs be inserted on both card and type-writer output, the following changes are to be made in the Free Form PDQ FORTRAN Subroutine deck (11/63). On Card 24051, change column 15 to I. On Card 24081, change column 37 to I. In the Fixed Format PDQ Subroutine deck (11/63) changes are as follows: On Card 25051, change column 15 to I. On Card 25081, change column 37 to I.

7. Elimination of Output Card Sequence Numbers Permitting 80 Column Output on Cards

Normally, the last four columns on output cards will contain sequence numbers. If it is desired that data occupy these last four positions, columns 77 thru 80, the following changes must be made: In the Free Form Subroutine deck (11/63) on Card 24058, replace columns 7 thru 13 with 4903158. In the Fixed Format Subroutine deck (11/63) on Card 25058, replace columns 7 thru 13 with 4903158.

8. Elimination of Four Digit Address Prior to Trace Output

The address of traced variables may be eliminated at object running time by depressing SIE STOP during the typing of LOAD DATA. Then Insert 360264600100 4906600 RS. Type 41 RS. To make this change in the Subroutine deck, change Card 24042 or 25042 columns 13 and 14 to 41.

9. Alter the Format of Traced Output

The results of tracing may be output under an F format by changing Card 2X035, column 23 thru 27 from 51408 to 5wwdd where ww is field width and dd is decimal digits desired. The change may be made at execution time after the program is loaded prior to execution by Reset, Insert 16023895wwdd 4906600 Release, Start. If execution of the program is in process, SIE STOP during printing of a traced variable, Insert 16023895wwdd42 Release, Start.

10. Output Trace in Tabular Form

To permit the output of trace to be tabulated, follow any of the processes in #9 above, using instruction 150264500008. In the Subroutine Deck, Card 2X042 column 12 change 2 to 8.

ll. Terminate Object Program Execution on Error Detection

Each computation Error type out is followed by a NOP instruction. These (4) may be converted to HALT if computation is not desired following the detection of an error. Change 1 to 8 as required per the following table:

Error Message	Location	Column	Card No.
UFLO	00937	18	20010
OFLO	01099	32	2X013
NSQR		38	4007
NLOG		38	3012

12. Elimination of Processing Messages

After personnel are well acquainted with this system and the sequence in which card decks must be fed to the computer, it may be desired to eliminate some of the typed out messages in the compiling process. Caution: These messages should be eliminated only when the system is to be used by persons who have gained familiarity with the system and can recognize the proper times for loading (a) a new source program, (b) the subroutine deck, or (c) program data.

The LOAD SUBROUTINE message may be eliminated by changing Card 08034 in the Processor, columns 8 and 9, 20 and 21. to 41 (NO OP).

The END OF COMPILATION message may be eliminated by changing Card O8109 in the Processor, columns 37 and 38, 49 and 50 to 41 (NO OP).

The START message can be eliminated by changing Card 08259 in the Processor, columns 19 and 20, 43 and 44 to 41 (NO OP).

To eliminate the LOAD DATA message, replace columns 9 and 10 on the last card of either Subroutine deck with 41 (NO OP).

Since there are alternate Subroutine decks, either of which may be used depending on the format of input data for an object program, it is felt advisable to retain the identity of the Subroutine deck used. However, should an installation feel this identification is not required, the PDQ SUBROUTINE message can be eliminated by changing the first card of either Subroutine deck replacing columns 13 and 14, and 25 and 26 with 41 (NO OP).

SYSTEM OPTIONS

13 * REREAD--A NEW TERM IN THE FORTRAN LANGUAGE TO ENABLE A DATA CARD TO SELECT THE FORMAT BY WHICH IT WILL BE READ

C

REREAD STATEMENT IN PDQ FORTRAN

IN FORTRAN PROGRAMMING, APPLICATIONS INVOLVING MULTIPLE FORMATS OF INPUT DATA FREQUENTLY PRESENT A PROBLEM TO THE PROGRAMMER DUE TO THE REQUIREMENT THAT THE FORMAT OF THE CARD MUST BE KNOWN BEFORE THAT CARD IS READ. THE REREAD STATEMENT ELIMINATES THIS PROBLEM BY PROVIDING THE PROGRAMMER WITH THE ABILITY, IN EFFECT, TO READ THE SAME CARD REPEATEDLY IN ORDER TO DETERMINE THE APPROPRIATE FINAL FORMAT.

THIS HAS BEEN ACCOMPLISHED BY MODIFYING THE COMPILER IN SUCH A MANNER THAT THE IMAGE OF ALL CARDS READ IS TRANSFERRED TO A SECONDARY CARD IMAGE PRIOR TO THE NORMAL FORMATTING OPERATIONS. UPON ENCOUNTERING A SUBSEQUENT REREAD STATEMENT, DATA IS DRAWN FROM THIS SECONDARY IMAGE AREA INSTEAD OF FROM AN INPUT CARD.

IN PRACTICE, THE PROGRAMMER WILL FIRST CALL FOR A NORMAL READ OPERATION, SPECIFYING A FORMAT WHICH WILL DEFINE THE IDENTIFYING DATA IN THE CARD. THEN AFTER PERFORMING THE NECESSARY LOGICAL OPERATIONS ON THE IDENTIFYING DATA, HE WILL CALL FOR A REREAD OPERATION, SPECIFYING THE DESIRED FORMAT FOR THE PARTICULAR CARD.

EXAMPLE

READ1,J GO TO %17, 18, 19m,J 17 REREAD 2, D, E, F, G

GO TO NNN

18 REREAD 3. A. B. C

GO TO NNN

19 REREAD 4, X, Y, IT

FORMAT 1 DEFINES THE LOCATION OF THE CONTROL DIGIT J.

IF J IS 1, CONTROL TRANSFERS TO STATEMENT 17

CAUSING THE CARD TO BE REREAD IN FORMAT 2, ETC.

-	*** C	HAN(SES TO	THE PD	Q F	RTRA	N PROCES	SOR	C2	en e	and the second second second
	00426							DORG	00426		
-	00426	16	16243	-6900	00	040		TFM	L	,6900	
	02358							DORG	02358		
	02358	47	17996	01200	01	750		BNE	RRPAT		
	02370	31	17510	17518	01	760		TR	CHI-1	•CH1&7	v.
	08212			*****				DORG	08212	and the second s	•
	08212	14	08182	J8088	07	630		CM	*-30	,RRPATE92	
7	18424				·····			DURG	18424		
	18424	49	18630	00000	17	380		В	RRPAT1		
	18630				17	680		DORG	18630		
	18630	31	17996	18650	17	690	RRPAT1	TR	RRPAT	,RRPAT1&20	· · · · · · · · · · · · · · · · · · ·
٠	18642	49	08164	00000	17	700		В	MOONT		
	18650				17	710		DORG	*-3	•	
-	18650	14	17515	000N9	17	720		CM	CHIE4	,59 ,10	
	18662	31	17510	17518	17	730		TR	CHI-1	,CHI&7	
											the second of th

```
8674
        47 02450 01200
                         17 740
                                          BNE
                                               RDCD
18686
        16 13024 -6820
                         17 750
                                          TFM
                                                INST286
                                                           , RERD
18698
        31 17510 17514
                             760
                                          TR
                                                           ,CHI&3
                         17
                                               CHI-1
18710
        49 02482 00000
                         17 770
                                          B
                                                101
17996
       00000
                                          D$
                         17 780
                                  RRPAT
                                                           .17996
*** CHANGES IN THE PDQ SUBROUTINES FIXED FORMAT DECK
03182
                                          DORG 03182
03182
        49 06704 00000
                         03 390
                                               CRRD
06542
                         07 090
                                          DORG 06542
06543
        00001X2 #
                         07 100
                                  RDBUF
                                          DAC
                                               1
                                                           . a
06703
        00160
                         07 110
                                          DS
                                                160
06704
        43 06772 03166
                         07 120
                                  CRRD
                                          BD
                                               RSRD
                                                           , MARK-1
06716
        44 06748 03167
                         07 130
                                          BNF
                                               CKRD
                                                           , MARK
06728
        44 03266 03159
                          07
                             140
                                          BNF
                                                ACCEPT
                                                           , MARKI
06740
        49 03194 00000
                         07 150
                                                POST
                                          R
06748
                          07 160
                                          DORG #-3
06748
        14 03167 000-5
                         07 170
                                  CKRD
                                          CM
                                               MARK
                                                           .5
                                                                       .10
06760
        47 03194 01200
                         07 180
                                          BNE
                                               POST
06772
        15 03164 00003
                          07 190
                                  RSRD
                                          TDM
                                               MARK-3
                                                           , 3
06784
                             200
        16 03169 0-500
                          07
                                          TFM
                                               MARK&2
                                                           ,500
                                                                       .8
06796
        31 06542 05102
                          07
                             210
                                          TR
                                                RDBUF-1
                                                           .INOUT-1
06808
        49 03194 00000
                          07 220
                                          В
                                                POST
06820
        15 03159 00001
                          07 230
                                  RERD
                                          TDM
                                               MARK1
                                                           , 1
                                                           ,RDBUF-1
06832
        16 03169 -6542
                          07 240
                                          TFM
                                               MARK62
                                                           , 2
D6844
        15 03164 00002
                          07 250
                                          TDM
                                               MARK-3
        26 03061 06819
06856
                         07 260
                                          TF
                                               PINFMT
                                                           , RERD-1
86860
        49 03002 00000
                         07 270
                                          R
                                               LOOK-24
**** THE FOLLOWING CARDS ACCOMPLISH THE ABOVE CHANGES
**** IN PDG FORTRAN PROCESSOR C2
                                     THE FIRST CHANGE IS IN THE 8TH CARD
```

12C

```
**** IN PDQ FIXED FORMAT SUBROUTINES
23905103000001503168000004906704031591603128-510344030260337*1-1-3157-3217-25052
430677203166440674803167440326603159490319400000* 1-1-6704-6752-25110
1403167000-547031940120015031640000316031690-500310654205102*1-1-6748-6808-25111
4903194000001503159000011603169-6542150316400002260306106819*1-1-6808-6868-25112
490300200000* 1-1-6868-6880-25113
250219000400250221400400250226600400250227800400490000000000*0-1-5190-5250-25114
490690003900041001004100000000000490690005356414400444163410* -25115
```

*** THIS SUBROUTINE COURTESY J. E. OKEEFFE, AMERICAN BRIDGE CO.

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OPERATING INSTRUCTIONS

A. Loading the PDQ FORTRAN Processor

Note: The processor will check the memory size of the computer and compile programs utilizing full memory unless a control digit has been set for smaller memory. See "System Options".

- 1) Set the PARITY and I/O and OFLOW switches to PROGRAM.
- 2) Place the processor deck in the reader, followed by the source deck.
- 3) Fill the punch hopper with blank cards.
- 4) Press the RESET and LOAD keys.

NOTE:

The first two cards of the processor will zero core. When cards begin to be read again, if a MAR CHK light is on, press SIE STOP, RESET and START. Turn PARITY and I/O switches to STOP. Eventually, START will be typed and compilation will begin.

B. Running the PDQ FORTRAN Processor See System Options #2

1) Set the sense switches as follows:

TABLE I

SWITCH	<u>ON</u>	<u>off</u>
1	Do not list source statements	List source statements and symbol table
2	Do not punch referenced source statements	Punch referenced source statements and symbol table
3	Do not compile subroutines into object deck	Compile subroutines into object deck
4	Source program is on cards	Source program is to be entered through the console typewriter

NOTES:

- a. If a typing error is made with switch 4 OFF, turn switch 4 ON, press RELEASE and START, and turn switch 4 OFF again IMMEDIATELY.

 The statement may then be re-entered correctly.
- b. Switches 1 and 2 may be turned on or off at will during assembly to alter the functions of the processor. If switch 1 is OFF after the END statement is assembled, the symbol table will be listed.

 This listing may be suppressed at any time by turning switch 1 ON.
- c. When switch 3 is ON, the subroutine deck is not called for at compile time, but at object time. When switch 3 is OFF, the subroutine deck is called at compile time and the required relocatable subroutines are punched out, followed by the arithmetic package. This takes 1 2 minutes and is not recommended, unless the program is known to be correct and is going to be used many times.
- 2) The source deck can be stacked on the compiler, and the subroutines on it (if subroutines are to be compiled) and the computer will not halt until the job is complete.
- 3) Press the START key. After the source program has been processed, the program will proceed to step 4 (a) if SWITCH 3 is ON, and to step 4 (b) if SWITCH 3 is OFF.
- 4a) After the END statement has been assembled, the processor will type

 PROCESSING COMPLETE

START

The processing is now complete.

If it is desired to process another source program, it is not necessary to reload the processor; just place the source program in the reader and push START.

Place the PDQ FORTRAN Subroutine deck in the reader. Press the reader start key. After the subroutine deck has been copied, the processor will type PROCESSING COMPLETE. If it is desired to process another source program, the processor must be reloaded. If the processor detects an error in the source program, all punching will cease and step 4 (a) will be selected regardless of the setting of switch 3.

C. Error Messages During Processing

PDQ FORTRAN has a limited ability to detect errors in the grammar and syntax of FORTRAN. This capability is not adequate and is present mainly to ensure that the processor does not destroy itself.

The PDQ FORTRAN error messages are:

TABLE II

Error No.	Condition			
1	Incorrectly formed statement.			
2	Subscripted variable for which no DIMENSION statement has previously appeared in the program, dimensioned variable used without subscripts, variable in DIMENSION statement has already appeared in the source program.			
3	Floating point number not in allowable range of values, or fixed point number contains more than four digits.			
4	Symbol table full.			
5	Mixed mode expression.			
6	Variable name in an expression contains more than five characters.			

Error No.	Condition			
7	Switch number has been omitted in an IF (SENSE SWITCH n) statement, or the first character following the right parenthesis in an IF statement is a comma.			
8	A comma follows the statement number in a DO statement.			
9	A DIMENSION statement ends with a comma, more than two dimensions have been specified in a DIMENSION statement.			
10	Unnumbered FORMAT statement.			
11	Incorrect representation in a FORMAT statement in one of the following ways:			
	a. Special character (= @ - * + . ,) in numerical field specification.			
	b. Alphabetic character other than D, E, F, I or A in a numerical field specification.			
	c. Decimal point missing in an E or F-type numerical field specification.			
	d. The number of positions to the right of the decimal point has not been given in an E or F-type numerical field specification.			
	e. A record mark appears in a numerical field specification or an alphanumeric field.			
	f. The first character following the word FORMAT is not a left parenthesis.			
12	The total record width specified in a FORMAT statement is greater than 80 characters.			
13	A FORMAT statement number has been omitted in an input/output statement.			

If the length of the compiled program plus the area required for data storage exceeds the capacity of the memory, the error message OVERLAP is typed.

D. Running the Object Program

- 1) Set the PARITY and I/O and OFLOW switches to PROGRAM.
- 2) Place the object deck in the reader.
- 3) Press the RESET and LOAD keys. The first two cards of the object deck will zero core. The subsequent cards will load the program. After core has been cleared and the program cards begin to read in, set PARITY and I/O switches to STOP.
- CAUTION: If the program is to utilize data already in core which has been developed by a previous program, the first two cards of the object deck must be discarded. The two zero core cards may be identified by having X punches in columns 3 thru 6 in the first card, 3 thru 5 in the second card.
 - 4) If LOAD SUBROUTINES is typed, place the proper PDQ FORTRAN Subroutine deck in the reader. Push READER START. If the Subroutine deck is stacked on the object deck, it will be read automatically.
 - 5) When LOAD DATA, PRESS START is typed, the object program is ready to be executed. Place the data deck, if any, in the reader; prepare the punch, if needed; set the sense switches, if used; and then press START.

To restart the object program from the beginning after the END statement has been reached:

- 1. Press RESET and INSERT keys;
- 2. Type 4906600;
- 3. Press the RELEASE and START keys.

E. Error Messages at Object Program Time

A number of error messages may be encountered at object running time:

MESSAGE	CONDITION	CONTENTS OF FAC	TABLE III
ERIN	Input data in incorrect form or Outside Allowable Range Too Large Too Small	9999999999 or 9999 0000000000	
UFLO	Underflow in FAD, FMP, FDV	000000000	
OFLO	Overflow in FAD, FSB, FMP, FDV, EXP, LOG, SIN, COS	9 99999999	
OFLO	Zero divisor in: FDV FXD	<u>9</u> 99999999 9999	
OFLO	Zero argument in LOG	ত 99999999	

MESSAGE	CONDITION	CONTENTS OF FAC
NSQR	Negative argument in SQRT	SQRT of Absolute Value of Argument
ERLN	Negative argument of LOG	LOG of Absolute Value of Argument

F. Error Messages While Subroutines are being Processed

If the program, data and subroutines require more memory than is available, then the message OVERLAP xxxxx POSITIONS is typed where xxxxx is the number of digits overlap. If the subroutine deck was being loaded and compiled, then the resulting object deck is not complete. If the subroutines were being loaded at object time, the program will not run.

G. Data Input at Typewriter

Each execution of an ACCEPT statement causes the typewriter carriage to return. The operator then types the desired data in the required format, and presses RELEASE and START. If a typing error is made, set Switch 4 ON, press RELEASE and START. The typewriter carriage will be returned and the data may be entered correctly.

H. Trace Mode

If the trace mode has been compiled, then when the object program is executed the program will operate in the trace mode if console switch 4 is ON, and in the non-trace mode if console switch 4 is OFF.

The trace mode causes the result of each executed arithmetic statement to be typed using I5 or El4.8 format preceded by the first four digits of the address of the variable traced. Normal output

is not inhibited. If an ACCEPT statement is executed while tracing, the following procedure must be used to cause the machine to ACCEPT the data and still trace (Switch 4 has two uses). See "System Options" for modifying format of traced data.

- 1. Type in the data.
- 2. If the data is correct, set switch 4 OFF and proceed to step 3; otherwise RELEASE, START and try again.
- 3. Press SIE (STOP) 7 or 8 times, set switch 4 ON, and press START.

I. Adding Relocatable Subroutines

Both the processor and the subroutine decks must be altered to include new subroutines.

a. Processor Deck

The last card of the compiler deck contains the 4 digit fields.

0008

SIN *

COS *

EXP *

LOG *

SQRT

ABS

DRH

ATAN

The first field is the number of subroutines, the following 8 fields, the names of the individual subroutines. The last four columns on the card are the sequence number.

To change the subroutine capability of the system, it is necessary to change the number of subroutines to the new, correct, number; and to add or delete subroutine names. If more than 18 subroutines are required, continue the names on a second card.

Special restrictions apply to the subroutines marked with an asterisk.

SIN and COS, if present, must be in their present positions. In order to delete SIN and COS, the subroutine relocator must be changed. To do this, proceed as follows:

- 1. Alter the processor as desired.
- 2. Alter, either on cards or each time the cards are loaded, the instruction in the subroutine relocator which is at location 00700 from 46 00884 01200

to 11 00000 00000

This instruction is in card 6 in the subroutine deck. EXP and LOG, if present, must be in their present positions. Note that A ** B uses EXP and LOG, but that A ** N does not.

b. Subroutine Deck

Subroutines should be written and processed in 4/4 SPS
RULES FOR WRITING SUBROUTINES

- 1. Define origin at 5000. This must be the start of the subroutine.
- 2. If the P or Q address of the instruction is to be relocated, a flag should be set over position 0 or 1, respectively, of the instruction. No flags should appear on positions 0 or 1 of instructions for any reason but relocation, and no flags should appear on positions 3 to 5 or 8 to 10 of the P or Q part, respec-

tively, of an instruction which is being relocated. Note: A flag in position 6 or 11 of a field to be relocated implies use of Indirect Addressing. The Subroutine Relocator will properly modify these addresses so that IA may be used if available and desired. The rest of the instruction may contain any combination of flags.

3. The field address of the data will be given by the formula $ADDR = 19989 - 20 n_s$

where n is the subroutine number. If the machine is larger than 20K, the formula should be altered to contain 39989, or 59989, etc.

The subroutine number is the order number of the records at the end of the processor. At present SIN is 00, COS is 01....

ATAN is 07. The subroutine number must not exceed 23.

4. Compile the subroutine using SPS and condense the resulting deck.

Throw away the first two and last seven cards. Make a header card as follows:

Col. 1-2 the subroutine number as a 2 digit unflagged number

- " 3 record mark (0-2-8)
- " 65-66 a zero and a record mark
- 76-80 card number

Make trailer cards as follows:

Col. 1 a zero
" 2 record mark (0-2-8)

" 63 a flagged zero

" 64 a one

" 65-69 a five digit field, flagged on the high order digit, the address of any digit in the subroutine which must be

altered for a larger memory. The alteration which is made is to replace the digit with a

l in a 20K machine

3 n n LOK n

5 " " 60K "

Col. 70

record mark

" 75

flagged zero

* 76-80

card number

If more than one digit requires alteration, two or more such cards should be included.

Make a final card as follows:

Col. 1-5

a 5 digit unflagged number, the length

of the subroutine (must be even)

11 6

record mark

" 65-66

flagged zero - record mark

76–80

card number

Make a deck of the header card, the SPS output without the first 2 or last 7 cards, the trailer cards, if any, and the final card.

Insert this deck before card 24000 or 25000 of the appropriate Subroutine deck.

J. Known Errors

There is one known error in PDQ FORTRAN inherited from FORTRAN with FORMAT.

The statements

$$A = -B * * C$$
 or

will compile as if they were

$$A = (-B) * C$$
 or

$$A = (-B) * * I$$

To obtain the desired result, it is necessary to write

$$A = -(B * * C)$$
 or

$$A = - (B * * I)$$

K. Reproducing the Processor and Subroutine Decks

To reproduce the processor and subroutine decks, use the program:

00000	37	11111	00500
00012	39	11111	00400
00024	49	00000	000000

```
TEST PROGRAM FOR PDQ FORTRAN
          COMMON VALUETION, ARGION, CNT340
          DIMENSION EX100, FX100, GX100, HX5, 50, FUNCTX100, H1X5, 50
       15 IFTSENSE SWITCH 4H 10,20
       10 ACCEPT1, XZERO, XMAX, DELX
          GO TO 200
       20 READ1.XZERO,XMAX.DELX
     200 X#XZERO
          PUNCH1, XZERO, XMAX, DELX
          PRINT 5
       30 X1#SINXXD
          X2#COSXXII
          X3#SINXXD/XCOSXXDD
          X4#EXPXXII
          X5#EXPX-XD
          X6#LOGXXII
          X7#LOG$Xp/2.3058509
          X8#SQRTXXD
          X9#ATANXXII
          X10#LDGXX3#/2.3058509
          PRINT1, X, XI, X2, X3
          PRINT1, X, X4, X5
          PRINTL-X-X6-X7
          PRINT1, X, X8
          PRINTI, X, X9, X10
          JFXX-XMAX# 40,50,50
       40 X#X&DELX
          60 TO 30
       50 READI, A.B.C.D
          READ 4.FLH1.FLH2.FLH3.FLH4.FLH5
          PUNCHI, A, B, C, D
          CONTROL 102
          PRINT4, FLH1, FLH2, FLH3, FLH4, FLH5
          PUNCH4, FLH1, FLH2, FLH3, FLH4, FLH5
          A1#AEB-CED
          A2#A+B+C+D
          A3#A/B
          A4#A*#$-BD
          A5#A/X-BD
          A6#A****B&2.***C
          A7#XA#B¤/XC#D¤
          A8#A/C+B/D
          PRINT1, A1, A2, A3, A4
          PRINT1, A5, A6, A7, A8
          PRINT6, A5, A6, A7, A8
          DO 60 I#1,10,5
          READ 8, FRID, FRIE10, FRIE20, FRIE30, FRIE40
          PUNCH8, F310, F31610, F31620, F31630, F31640
       60 CONTINUE
          DO 29 J#1,10,2
          READ1,GZJE,GZJ&1
          PUNCHI, GZJE, GZJ&1E
       29 CONTINUE
          DO 61 1#1,10,5
E210#251N2F2100+02062COS2F2100++20
          DO 55 J#1,10,3
          F%ID#J
```

ALUEZL&4¤
INCT&LE4D
UNCT\$L&4D
<u> </u>
·
,
. (

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READ4, FXH1, FXH2 PUNCH4, FXH1, FXH2 CONTROL 102 PRINT4, FXH1, FXH2, FLH4, FLH5 READ3, 12, 13, 14 PUNCH3.12.13.14 15#12813814 16#15-14 17#12*13 18#12#13#14 19#14/13 NOTE-+I IS DEFINED BY DO 61 I # 1,10,5 J1#126136813#14m/1 PRINT3, 12, 13, 14 PRINT3, 15, 16, 17, 18, 19, J1 PAUSE STOP555 GO TO 15 BEGIN PROCEDURE 300 A TO NEAREST 1/16. B TO NEAREST INTEGER. D2 TO NEAREST 0.0001 A1#0.0625#DRHZA#16.8.50 A2#DRHEB&.50 D2#0.0001*DRH%D2*10000.&.50 PRINTI, Al, A2, D1, D2 END PROCEDURE 300 1 FORMAT25F15.80 2 FORMAT%115,F15.8,1150 3 FORMATESIISD 4 FORMATESASD 5 FORMATELIX 1HX 13X 6HSINEXE 10X 6HCOSEXE 10X 6HTANEXE /11X1HX 13X 1 6HEXP\$X= 10X 7HEXP\$-X=/ 11X 1HX 13X 6HLOG\$X= 9X 8HLOG10\$X=/ 11X 2 1HX 13X THSQRTXXII/ 11X 1HX 13X THATANXXII 7X 13HLOG1OXTANXXIII/ I 6 FORMATEO10,5X,D10,5X,D10,5X,D10 7 FORMATE14H THIS IS THE , A3, 25H OF THE 4 LOOPS OF DO 1300 8 FORMATESELS.80 END

**** THIS DATA IS ACCEPTABLE TO THE FREE FORM	SUBROUTINES ONLY.
**** THE OUTPUT FROM THE EXECUTION OF THE PRO	GRAM WILL
**** BE IN FIXED FORMAT SUITABLE FOR USE WITH	I EITHER
**** THE FREE FORM OR THE FIXED FORMAT SUBROL	ITINES.
***** DATA CARDS ARE AS FOLLOWS	
**** XZERO, XMAX, DELX	
.40 .80 .10	
**** A,B,C,D	
1.411 2.222 3.333 4.444	
A FLH FLOATING POINT ARITHMETIC	
**** FID	
1.1 2.2 3.3 .14E1 .0015E3	
.00E0 170.E-2 1.8 1.9 2.0	
/ GSJn	
2.1 2.2	
3.3 2.4	
2.5 2.6	
2.7 2.8	
2.9 3.0	
##### ARGZJU	
5.0 10.0	σ
24.0 11.0 39.0 17.0	
44.0 41.0	
50.0 1.0	
A VALUERLE	
1.0 2.0 3.0 4.0 5.0	Λ
6.0 7.2 8.0 9.0 10.0	•
**** FUNCTSLD	
1.1 2.1 3.1 4.1 5.1	
6.1 7.1 8.1 9.1 10.1	
ARANA HEM, NO	
.11 .22 .33 .44 .55	
.66 .77 :88 .99 .10 .11 -12 -13 .14 .15	
16 -17 -18 -19 -20	
.21 .22 .23 .24 .25	
A FXH	
INTEGER	
#### 12,13,14	
22 11 33	

TEST PROGRAM TYPED OUTPUT

LOAD SUBROUTINES

```
PDO FREE FORM SUBROUTNS 11/63
LOAD DATA
                                                                 TAN(X)
            XXXXX
                            SIN(X)
                                               cos(x)
                            EXP(X)
LOG(X)
                                               EXP(-X)
                                             LOG10(X)
                            SORT(X)
                            ATAN(X)
                                            LOG10(TAN(X))
       40000000
                        .38941834
                                         •92106099
                                                          •42279322
                                         .67032004
                       1.49182470
       1:0000000
       40000000
                       -.91629073
                                        -.39737640
                        .63245553
        40000000
        40000000
                        .38050637
                                        -.37334246
                                         .87758256
.60653066
        50000000
                        •47942554
                                                          .54630249
                       1.64872130
        50000000
                                        -.30060364
        50000000
                       -.69314718
       50000000
                        .70710678
       .50000000
                        .46364760
                                        -.26219494
                                         .82533561
.54881163
       •60000000
                        .56464247
                                                          .68413681
       .60000000
                       1.82211880
                       -.51082562
                                        -. 22153454
       -60000000
       .60000000
                        .77459667
                        .54041950
                                        -.16462355
       .60000000
       .70000000
                        -64421769
                                         .76484218
                                                          .84228839
                      2.01375270
-.35667494
                                         49658530
       70000000
       70000000
                                        -.15468256
       .70000000
                        .83666002
       70000000
                                        -.07443361
                        .61072596
       80000000
                        .71735609
                                         .69670670
                                                         1.02963850
                       2.22554090
        80000000
                                         . 4493 2896
                      -. 22314355
       .80000000
                                        -.09677275
       .80000000
                        .89442719
       .80000000
                        .67474094
                                         .01266680
FLOATING POINT ARITHMETIC
                                         50000000
                                                          .79144978
     4-44400000
                     36,565 16000
     -.50000000
                      5.19804550
                                         .16666666
                                                          .16666666
                 N151980455
N05000000-
                                  NO16666666
                                                   NO1666666
     1:00000000
     1.00000000
                       2.10000000
                                                  2
     4:00000000
     1.00000000
                                                  2
                       2.40000000
     7.00000000
     1.00000000
                                                  2
                       2.70000000
    10:00000000
     1.00000000
                                                  3
                       3.00000000
               10
     1:00000000
     1.00000000
                                                  2
                       2.10000000
     4,00000000
     1.00000000
                                                  2
                       2.40000000
```

```
7:00000000
     1.00000000
                       2.70000000
                                                  2
    10:00000000
     1.00000000
                       3.00000000
               10
                                                  3
     5.00000000
                       5.10000000
    10:00000000
                     10.10000000
     1:00000000
                       1.10000000
    11:00000000
    22,000000000
    33:000000000
    44:00000000
    55:000000000
       :11000000
                        .20000000
                                    THIS IS THE 1ST OF THE 4 LOOPS OF DO 130
     1:11100000
                       2.22200000
                                        -.54319101
                                                         1:06372570
                                                                          1.00000000
     1.12500000
                       2.00000000
                                        -.54319101
                                                         1.06870000
    66:00000000
    77:00000000
    88:00000000
    99:00000000
    10:00000000
       .11000000
                                    THIS IS THE 2ND OF THE 4 LOOPS OF DO 130
                        .20000000
     1:11100000
                       2.22200000
                                        -.54319181
                                                         1:06872570
                                                                          1.00000000
     1.12500000
                       2.00000000
                                        -.54319181
                                                         1.06870000
    11:00000000
    12:00000000
    13:00000000
    14.00000000
     15:000000000
                                    THIS IS THE 3RD OF THE 4 LOOPS OF DO 130 -.54319161 1.06370000 1.00000
       :11000000
                        .20000000
     1:11100000
                       2.22200000
                                                                          1.00000000
     1.12500000
                       2.00000000
                                        -.54319181
                                                         1.06070000
    16.00000000
    17.00000000
    18:00000000
    19.00000000
    20.00000000
                                    THIS IS THE 4TH OF THE 4 LOOPS OF DO 130
-.54319161 1.06870000 1.00000
                        .20000000
       .11000000
     1:11100000
                      2.22200000
                                                                          1.00000000
     1.12500000
                       2.00000000
                                        -.54319101
                                                         1.06870000
       .00000000
     1.11100000
     -.24104984
     1.23432100
                        .81016201
INTEGER
           ARITHIETIC
              22
66
                                11
                                                                7936
                                33
                                                                                    3
               66
STOP 0555
```

	****	1511NG	OF THE REFERENCED SOURCE CARDS AFTER SORTING	
	-6600	C 75	CT DROCKAM COR DOO CORTRANA	
		C TE	ST PROGRAM FOR PDQ FORTRAN+	
	-6600		COMMON VALUEZION, ARGZION, CNTZ4N+	
	-6600	1 5	DIMENSION E%100, F%100, G%100, H%5, 50, FUNCT%100, H1%5, 50+	
	-6600		IFTSENSE SWITCH 40 10,20‡	
	-6620	10	ACCEPT1,XZERO,XMAX,DELX‡	
	-6668	20	GO TO 200‡	
	-8676		READ1, XZERO, XMAX, DELX+	
	-6724	200	X#XZERO+	
	-6736 -6784		PUNCH1, XZERO, XMAX, DELX‡ PRINT 5‡	
	-8796	20	X1#SIN%XD#	
	-6820	30	X2#COS\$X¤‡	
	-6844		X3#SINXXD/XCOSXXDD#	
	-6904		X4#EXPXXII	
	-6928		X5#EXP 3 -X¤+	
	-6976		X6#L0G\$X¤‡	
	-7000		X7#L0G\$X¤/2.3058509#	
	-7036		X8#SQRTXX=	
	-7060		X9#ATAN\$X=	
	-7084		X10#L0G\$X3¤/2.3058509‡	
	-7120		PRINT1, X, X1, X2, X3+	
	-7180		PRINT1, X, X4, X5#	
	-7228		PRINT1, X, X6, X7 +	
	-7276		PRINT1,X,X8‡	*************************************
	-7312		PRINT1, X, X9, X10+	
	-7360	•	IF3X-XMAX= 40,50,50+	
	-7428	40	X#X&DELX+	
	-7464		GO TO 30#	
	-7472	50	READ1, A, B, C, D‡	
	-7532		READ 4,FLH1,FLH2,FLH3,FLH4,FLH5+	
	-7604		PUNCH1, A, B, C, D =	
	-7664		CONTROL102#	
	-7676		PRINT4,FLH1,FLH2,FLH3,FLH4,FLH5+	
	-7748		PUNCH4, FLH1, FLH2, FLH3, FLH4, FLH5+	
	-7820		A1#A6B-C6D+	
	-7880		A2#A+B+C+D+	
	-7940		A3#A/B#	
	-7976		A4#A+#%-BD+	
	-8012		A5#A/2-Bu‡	
	-8060		A6#A***B&2.0*C*	*
	-8144		A7#XA+8D/XC+DD+	
	-8228		A8#A/C#B/D#	
	-8288		PRINT1, A1, A2, A3, A4+	
	-8348		PRINT1, A5, A6, A7, A8‡	
	-8408		PRINT6, A5, A6, A7, A8‡	
	-8468		DO 60 I#1,10,5\$	
	-8480		READ 8, F310, F31610, F31620, F31630, F31640‡	
	-8672		PUNCH8, FXII, FXIE10, FXIE20, FXIE30, FXIE40+	
	-8864	60	CONTINUE \$	
	-8900		DO 29 J#1,10,2+	
_	-8912		READI, GZJE, GZJEIE+	
	- 8996	20	PUNCH1,G%JD,G%J&lD‡	
	-9080	29	CONTINUE + DO 61 I#1,10,5+	
	-9116 -0129		E%In#%SIN%F%Inn++2n&%COS%F%Inn++2n+	
	-9128		COINTO SINOR OLINOR COUNTY OF BINDER COT	

-9284	DO 55 J#1,10,3+	0
-9296	F%ID#J#	
-9356	PRINT1.FRIU+	
-9404	K#G\$J¤‡	
-9464	PRINT1,EXID#	
-9512	PRINT 2,J,G%JD,K‡	
-9584	55 CONTINUE#	
-9620	61 CONTINUE#	
-9656	DO 47 J#1,10,2*	
-9668	READ1, ARGZJE, ARGZJE1U‡	
-9752	PUNCH1, ARGXJE, ARGXJE10+	<u> </u>
-9836	47 CONTINUE#	
-9872	DO 48 L#1,10,5\$	
-98 84	READ1, VALUESLE, VALUESLE10, VALUESLE20, +	
J0004	1VALUERLE30, VALUERLE40+	
J9076	PUNCHI, VALUETLE, VALUETLEIE, VALUETLE2E, VALUETLE3E, VALUETLE4E	
J0268	48 CONTINUE#	
J0304	DO 49 L#1,10,5+	
J0316	READI, FUNCTALA, FUNCTALGIA, FUNCTALGA, FUNCTALGA, FUNCTALGA	
J0508	PUNCH1, FUNCTALE, FUNCTALE 1=, FUNCTALE 2=, FUNCTALE 3=, FUNCTALE 4=+	
J.0700	49 CONTINUE#	
J0736	DO 63 J#1,10+	
J0748	DO 70 L#1,10+	
J0760	IFRARGRUM-VALUERLUM 70,65,70#	
J0876	65 PRINTI, ARGSJD, FUNCTSLD+	
10960	70 CONTINUE+	
J0996	63 CONTINUE#	
J1032	DO 140 M#1,5#	
J:1044	READ1, HZM, 10, HZM, 20, HZM, 30, HZM, 40, HZM, 50+	
J1236	PUNCHI, HRM, 10, HRM, 20, HRM, 30, HRM, 40, HRM, 50+	
J1428	140 CONTINUE#	
J1464	CNT31##6-263E20#	
J1476	CNT320#55.44E20#	
J1488	CNT\$3¤#594.4E20#	· · · · · · · · · · · · · · · · · · ·
J1488 J1500	CNT33#594.4E20# CNT34##6348.E20#	
J1488 J1500 J1512	CNT33#594.4E20# CNT34#6348.E20# DO 130 M#1,4#	
J1488 J1500 J1512 J1524	CNT33#594.4E20# CNT34#6348.E20# DO 130 M#1,4# DO 80 N#1,5#	
J1488 J1500 J1512 J1524 J1536	CNT33=594.4E20+ CNT34=6348.E20+ DD 130 M#1,4+ DD 80 N#1,5+ H13N,N=#H3M,N=+1.0E&2+	
J1488 J1500 J1512 J1524 J1536 J1692	CNT33=594.4E20+ CNT34=6348.E20+ DD 130 M#1.4+ DD 80 N#1.5+ H13M,N=#H3M,N=1.0E&2+ PRINT1.H13M,N=	
J1488 J1500 J1512 J1524 J1536 J1692 J1776	CNT33=594.4E20+ CNT34=6348.E20+ DD 130 M#1.4+ DD 80 N#1.5+ H13M,N=#H3M,N=1.0E&2+ PRINT1.H13M,N=+ 80 CONTINUE#	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812	CNT33=#594.4E20# CNT34=#6348.E20# DD 130 M#1.4# DD 80 N#1.5# H13M,N=#H3M,N=1.0E&2# PRINT1.H13M,N=# 80 CONTINUE# PRINT1.H21.1=.H34.5=#	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812 J1848	CNT33=#594.4E20# CNT34=#6348.E20# DD 130 M#1,4# DD 80 N#1,5# H13M,N=#H3M,N=1.0E&2# PRINTL,H13M,N=# 80 CONTINUE# PRINTL,H21,1=,H34,5=# TYPE7,CNT3M=#	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812 J1848 J1896	CNT33=#594.4E20# CNT34=#6348.E20# DD 130 M#1,4# DD 80 N#1,5# H13M,N=#H3M,N=+1.0E&2# PRINT1,H13M,N=# 80 CONTINUE# PRINT1,H31,1=,H34,5=# TYPE7,CNT3M=# GO TO \$90,100,110,120=,M#	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980	CNT33=#594.4E20# CNT34=#6348.E20# DD 130 M#1,4# DD 80 N#1,5# H13M,N=#H3M,N=1.0E&2# PRINT1,H13M,N=# 80 CONTINUE# PRINT1,H21,1=,H24,5=# TYPE7,CNT3M=# GD TO 290,100,110,120=,M# 90 D1#SINZA=#COS3B=#	
J1488 J1500 J3512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040	CNT33=#594.4E20# CNT34=#6348.E20# DD 130 M#1,4# DD 80 N#1,5# H13M,N=#H3M,N=1.0E&2# PRINT1,H13M,N=# 80 CONTINUE# PRINT1,H31,1=,H34,5=# TYPE7,CNT3M=# GD TO 390,100,110,120=,M# 90 D1#SIN3A=#COS3B=# 100 D2#SIN3A=#3COS3B=#	
J1488 J1500 J3512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124	CNT33=#594.4E20# CNT34=#6348.E20# DO 130 M#1,4# DO 80 N#1,5# H13M,N=#13M,N=1.0E&2# PRINT1,H13M,N=# 80 CONTINUE# PRINT1,H21,1=,H24,5=# TYPE7,CNT2M=# GO TO \$90,100,110,120=,M# 90 D1#SINZA=#COSZB=# 100 D2#SINZA=#ZCOSZB=# 110 D3#SQRTZZSINZA=#2=#ZCOSZA=#Z==#	
J1488 J1500 J3512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220	CNT33=#594.4E20# CNT34=#6348.E20# DO 130 M#1,4# DO 80 N#1,5# H13M,N=#13M,N=1.0E&2# PRINT1,H13M,N=# 80 CONTINUE# PRINT1,H21,1=,H24,5=# TYPE7,CNT2M=# GO TO 290,100,110,120=,M# 90 D1#SINZA=#COSZB=# 100 D2#SINZA=#ZCOSZB=# 110 D3#SQRTZZSINZA=#2=&ZCOSZA=#Z==#2==# 120 PRINT1,A=B,D1,D2,D3#	
J1488 J1500 J3512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292	CNT33=#594.4E20# CNT34=#6348.E20# DO 130 M#1,4# DO 80 N#1,5# H13M,N=#3M,N=1.0E&2# PRINT1,H13M,N=# 80 CONTINUE# PRINT1,H21,1=,H24,5=# TYPE7,CNT2M=# GO TO 290,100,110,120=,M# 90 D1#SIN2A=COS2B=# 100 D2#SIN2A=2COS2B=# 110 D3#SQRT22SIN2A=2E2COS2A=2=== 120 PRINT1,A,B,D1,D2,D3# EXECUTE PROCEDURE 300#	
J1488 J1500 J3512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292 J2304	CNT33=#594.4E20# CNT34=#6348.E20# DO 130 M#1,4# DO 80 N#1,5# H13M,ND#H3M,ND=1.0E&2# PRINT1,H13M,ND# 80 CONTINUE# PRINT1,H31,1D,H34,5D# TYPE7,CNT3MD# GO TO 390,100,110,120D,M# 90 D1#SIN3AD=COS3BD# 100 D2#SIN3AD=2COS3BD# 110 D3#SQRT3\$SIN3AD=2U&3COS3AD=2DD# 120 PRINT1,A,B,D1,D2,D3# EXECUTE PROCEDURE 300# 130 CONTINUE#	
J1488 J1500 J3512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292 J2304 J2340	CNT%30#594.4E20# CNT%40#6348.E20# DO 130 M#1,4# DO 80 N#1,5# H1%M,NO#H%M,NO#1.0E&2# PRINT1.H1%M,NO# 80 CONTINUE# PRINT1,H%1,10,H%4,50# TYPE7,CNT%MO# GO TO %90,100,110,1200,M# 90 D1#SIN%AO#COS%BO# 100 D2#SIN%AO#COS%BO# 110 D3#SQRT%%SIN%AO#20&%COS%AO#200# 120 PRINT1,A,B,D1,D2,D3# EXECUTE PROCEDURE 300# 130 CONTINUE# Z#0#	
J1488 J1500 J3512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292 J2304 J2340 J2376	CNT%3 = 594.4 = 20 + CNT%4 = 6348. = 20 + DO 130 M#1,4 + DO 80 N#1,5 + H1%M,NO#H\$M,NO = 1.0 = 82 + PRINT1. + H1%M,NO = 80 CONTINUE + PRINT1. + H21,10. + H24,50 + TYPE7,CNT%MO + GO TO \$90,100,110,1200, M + 90 D1#SIN%AD = COS%BO = + 100 D2#SIN%AD = *** *** *** *** *** *** *** *** ***	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292 J2304 J2340 J2376 J2400	CNTX4G#6348.E2O+ CNTX4G#6348.E2O+ DO 130 M#1,4+ DO 80 N#1,5+ H1XM,NG#HXM,NG+1.OE&2+ PRINT1,H1XM,NG+ 80 CONTINUE; PRINT1,H12,1G,H14,5G+ TYPE7,CNTXMG+ GO TO 290,100,110,120G,M+ 90 D1#SINXAGCOSXBG+ 100 D2#SINXAGCOSXBGG+ 110 D3#SQRTXXSINXAGCSXBGG+ 120 PRINT1,A,B,D1,D2,D3+ EXECUTE PROCEDURE 300+ 130 CONTINUE; Z#0+ PRINT1,Z; D4#-B&C+	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292 J2340 J2340 J2376 J2400 J2448	CNT33=#594.4E20# CNT34=#6348.E20# DD 130 M#1,4# DD 80 N#1,5# H1%M,NU#H%M,NU=1.0E&2# PRINT1,H1%M,NU= 80 CONTINUE# PRINT1,H21,1U,H24,5U# TYPE7,CNT%MU# GD TO 290,100,110,120U,M# 90 D1#SIN%AU=COS%BU# 100 D2#SIN%AU=*2U&%COS%AU=*2UU# 110 D3#SQRT%SIN%AU=*2U&%COS%AU=*2UU# 120 PRINT1,A,B,D1,D2,D3# EXECUTE PROCEDURE 300# 130 CONTINUE# Z#0# PRINT1,Z# D4#-B&C# PRINT1,D4#	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292 J2304 J2340 J2376 J2400 J2448 J2472	CNT33#594.4E20# CNT34#6348.E20# DO 130 M#1,4# DO 80 N#1,5# H1%M,NU#H\$M,NU#1.0E&2# PRINT1,H1%M,NU# 80 CONTINUE# PRINT1,H%1,1u,H%4,5u# TYPE7,CNT\$Mu# GO TO \$90,100,110,120u,M# 90 D1#\$IN%AU#CO\$%Bu# 100 D2#\$IN%AU#CO\$%Bu# 110 D3#\$QRT%\$\$IN%AU#2U&%CO\$%AU#2UU# 120 PRINT1,A,B,D1,D2,D3# EXECUTE PROCEDURE 300# 130 CONTINUE# Z#0# PRINT1,Z# D4#-B&C# PRINT1,D4# D5#\$IN%AU#CO\$%AU#CO\$%BU#	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292 J2304 J2340 J2376 J2400 J2448 J2472 J2568	CNT31#594.4E20# CNT341#6348.E20# DO 130 M#1,4# DO 80 N#1,5# H1%M,NU#H3M,NU#1.0E&2# PRINT1.H1%M,NU# 80 CONTINUE# PRINT1.H31.1U.H34.5U# TYPE7.CNT%MU# GO TO \$90.100.110.120U.M# 90 D1#SIN%AU#COS%BU# 110 D3#SQRT%SIN%AU#2U&%COS%AU#2UU# 120 PRINT1.A.B.D1.D2.D3# EXECUTE PROCEDURE 300# 130 CONTINUE# Z#0# PRINT1.Z# D4#-B&C# PRINT1.D4# D5#SIN%AU#COS%AU#COS%BU# PRINT1.D5#	
J1488 J1500 J1512 J1524 J1536 J1692 J1776 J1812 J1848 J1896 J1980 J2040 J2124 J2220 J2292 J2304 J2340 J2376 J2400 J2448 J2472	CNT33#594.4E20# CNT34#6348.E20# DO 130 M#1,4# DO 80 N#1,5# H1%M,NU#H\$M,NU#1.0E&2# PRINT1,H1%M,NU# 80 CONTINUE# PRINT1,H%1,1u,H%4,5u# TYPE7,CNT\$Mu# GO TO \$90,100,110,120u,M# 90 D1#\$IN%AU#CO\$%Bu# 100 D2#\$IN%AU#CO\$%Bu# 110 D3#\$QRT%\$\$IN%AU#2U&%CO\$%AU#2UU# 120 PRINT1,A,B,D1,D2,D3# EXECUTE PROCEDURE 300# 130 CONTINUE# Z#0# PRINT1,Z# D4#-B&C# PRINT1,D4# D5#\$IN%AU#CO\$%AU#CO\$%BU#	

	J2640	D7#A***-11=+
	J2676	PRINT1,06,D7#
	J2712	READ4,FXH1,FXH2+
	J2748	PUNCH4,FXH1,FXH2+
	J2764	CONTROL 102+
		PRINT4,FXH1,FXH2,FLH4,FLH5+
	J2796	
	J2856	READ3, 12, 13, 14+
	J2904	PUNCH3, I2, I3, I4+
	J2952	15#12613614#
	13000	16#15-14#
	J3036	17#12*13#
	J3072	18#12+13+14+
	J3120	19#14/13#
	J3156	C NOTE1 IS DEFINED BY DO 61 I # 1,10,5#
	J3156	J1#126136%13+14m/1+
	J3252	PRINT3,12,13,14+
	J3300	PRINT3, 15, 16, 17, 18, 19, J1 +
	J 93 84	PAUSE+
	J3396	STOP555#
	J3408	GO TO 15#
	J3416	BEGIN PROCEDURE 300#
	J3444	C A TO NEAREST 1/16, B TO NEAREST INTEGER, DZ TO NEAREST 0.0001#
	J3444	A1#0.0625=DRH\$A=16.6.5==
	J3516	A2#DRH\$B&.5¤‡
	J3564	D2#0.0001+DRH%D2+10000.&.5¤+
	J9636	PRINT1,A1,A2,D1,D2+
	J3696	END PROCEDURE 300+
A	J3704	1 FORMAT\$5F15.80#
O _	J3746	2 FORMATRI15,F15.8,I150+
-	J3778	3 FORMAT#5115##
	J3820	4 FORMATSA50‡
	J3862	5 FORMATELLX 1HX 13X 6HSINEXD 10X 6HCDSEXD 10X 6HTANEXD /11X1HX 13X+
	J3862	1 6HEXP\$XD 10X 7HEXP\$-XD/ 11X 1HX 13X 6HL0G\$XD 9X 8HL0G10\$XD/ 11X\$
	J3862	2 1HX 13X 7HSQRTXXD/ 11X 1HX 13X 7HATANXXD 7X 13HLOG10XTANXXDD// D#
	J4274	6 FORMATED10,5X,D10,5X,D10==
	J4332	7 FORMAT\$14H THIS IS THE .A3.25H OF THE 4 LOOPS OF DO 1300+
	J\$446	8 FORMAT35E15.80+
	J4488	END*
-	J7610	N51000000-M71000000-N05000000-N21600000-M96250000-N171000000M979000000
	J7680	M978000000M977000000M976000000M975000000M974000000M973000000M972000000
	J7750	J3784K-003M667487200M667487100M477000000M476000000M971000000M475000000
	J7820	M474000000-00000-00-0900000000-00000-300J34320-300M473000000M472000000
	J7890	M471000000J2Z20120J2124110J2040100J1980090J4338K-007N31000000-
	J7960	N50000000J1776080J2304130P46348000-P35944000-P25544000-P16263000-
	J8030	N40000000J1428140J0876065J0960070J0996063J0700049N300000000
	J#100	J0268048-9836047J3752K-002N20000000-9584055-00000-00K-9620061
-	J 81 70	N10000000-9080029J4452K-008M90000000-8864060J4280K-006M178000000
	J8240	-000000-03M177000000N12000000-M176000000M175000000-000000-01M174000000
	J8310	M173000000M172000000M171000000M653487500M653487400M653487300M653487200
	J8380	M653487100J3826K-004M40000000M30000000M20000000M100000Q00-7472050
	J8450	-7428040077170000007790000000778000000N12305850R07770000000776000000
	J8520	07750000000774000000-000000-0207730000000772000000-000000-000771000000
	J8590	-6796030J3868K-005070000000-6724200M4455367000754416 700 0769455956
	J#660	J3710K-001-6676020-6620010-6600015005J8709M871000000010J8959
		M664554363005J9059M80000000010J9309M700000000010J9409M600000000
	-	010J9509M50000000004J9609M355630000010J9649M159470000010J9749
, julija	-	0541536445M163415546M163415500M459484600M459480000M142624600M142620000

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01046		01068			640		TF	*622,SMTLU1810#		
01058		01106			550		BNF	*£48,4 ‡		
G1070		00701			66C		TOM	DCSWCH,7,11#		
C1082		01104		00			TF	*&22,SMTLU1&10\$		
01094		01153			680		TF	SLOT,4‡		
01106		01123			690		TF	*817,SMTLU1&10+		
01118		00004			700		TF	4,L‡		
01130		01147		00			TF	*£17,SMTLU1£10‡		
01142		00005			720		SF	5‡		
01153		00003	70000	00	730	SLOT	DS.	, * *		
01154	16	01264	-0089		740	FRMAT1		FRMAT2&6,89#		
01166		16398			750		TF	BRINST&6,L#		
01178		16249			760		TF	LCDER, SMCNT+		
01190		01276		CO			TFM	FRMAT2818,88#		
01202		17019			780		TR	PHI-1,CHI-1#		
01214		01234			790		BNR	*£20,PHI‡		
01226		01386			800		В	BLANKS#		
01234		01300	0000		3-10			#-3‡		
01234	14	17020	000-0		820		CM	PHI,,10#		
01246		01330			830		BE	FRMAT2672#		,
01258		-0000			840	FRMAT2	TF	,PHI,2‡		
01270		-0000			85C		CF	,,2‡		
01279	ر د	2	00000		852		DC	2 ,37	, *-2‡	
01281	******	2		00		AVCID	DC		,**	
01282	14	01264	-0099		860	A (0 1 0	CM	FRMAT286,99#	•	
01294		01350			870		BE	+656‡		
01306		01264			880		AM	FRMAT286,2,10+		
01318		C1276			890		AM	FRMAT2&18,2,10#		
01330		17019			900		TR	PHI-1,PHI&1#		
01342		01214			910		В	FRMAT1860#		
01350	,	OILI	00000		920			#-3‡		
01350	32	00088	00000		930		SF.	88‡	·	
01362		00000			940		Č	99, FRMSCT&10#		
01374		02852			950		BE	FCRMAT#		
01386		14928			960	BLANKS	BT	860,860-1+		
01388		17019			970	OLAIN 3	TR	PHI-1,CHI-1#		
01410		01661			980		TF	BLNK1&11, ELEVEN&11+		
01410		17020			990		CM	PHI,,10#		
01422		17019			000	,	TR	PHI-1,PHI&1#		
		01650			010	•	BE	BLNK1‡		
01446 01458		01661			020		A	BLNK1&11, INCREM#		
		01422			030	BLNK2	BNR	*-48,PHI		
01470 01482		01422			040	DENNA	TF	*£18,8LNK1£6‡		
01482		00000			050		T ?	,AVOID-3‡		
01506		01514			0.53		В	*88‡		
01514	77	01314	00000		054			*-3‡		
01514	21	17021	17510		060	SDECOD		PHI&1,CHI-1#		
<u>01714</u>		11061	11710	01	500	JUC405		A TAXABOTTA & T		
									20	

LOCTN	CP P/L	Q :	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	3
01526	31 17019	17021		070		TR	PHI-1,PHI&1#		
01538	14 17020	CCOL3	01	080		CM	PHI,33,10#		
01550	47 01670	01200	01	090		BNE	ISITF-12#		
01562	31 17019	17021	01	100	STDCD2	TR	PHI-1,PHI&1+		
01574	45 01594	17024	01	110		BNR	*620,PHI604#		· · · · · · · · · · · · · · · · · · ·
01586	49 11622	00000	01	120		В	ASCAN‡		
01594			01	130		DORG	* −3 ‡		
01594	14 17020	COOK4	01	140		CM	PHI,24,10#		
01606	46 11622	01200	01	150		BE	ASCAN+		
01618	14 17020	000K3		160		CM	PHI,23,10#		
01630	47 01562	01200	01	170		BNE	STDCD2#		
01642	49 05282			180		В	DO#		
01650			01	190		DORG	*−3 ‡		**
01650	31 J7510	17512		200	BLNK1	TR	CHI-1,CHI&1,2+		
01662	49 01470		01	210		В	BLNK2*		
01670			01	220		DORG	#-3 ‡		
01670	45 01526	17024		230		BNR	SDECOD&12,PHI&4+		:
01682	14 17511			240	ISITF	CM	CHI,46,10#		
01694	47 01718			250		BNE	* &24 ‡	•	
01706	17 11534			260		BTM	ERROR,7170,8#		
01718	14 17511			270		CM	CHI,49,10#		
01730	46 04584			280		BE	IF#		
01742	14 17511			290		CM	CHI,47,10#		
01754	46 05706			300		BE	GOTO#		
01766	14 17511			310		CM	CHI,44,10‡	1. No. 1	
01778	46 04520			320		BE	DIM#		T)
01790	14 17511			330		CM	CHI,42,10#	* <u>-</u>	
01802	47 01858			332		BNE	* &56 †		
01814	14 17521			334		CM	CHIE10 ,57	, 10‡	
01826	46 06134			336		BE	BEGPRO#	720.	
01838	15 16099			338		TDM	TRACE&1 ,4+		
01850	49 00462			340		В	BEGIN#		
C1858	77 00702	00000		342			* -3 +		
01858	14 17511	000#3		350		CM	CHI,43,10+		
01870	47 C1926			360		BNE	* &56 ‡		
01882	14 17519			370		CM	CHI&8 ,56	, 10‡	·····
01894	47 06724			380		BL	CONTIN#	,,,,,,	
01906	46 04552			390		BE	COMM#		
01918	49 07200			400		В	CONTRL#	1	
01926	49 01200	00000		410	<u></u>		*-3‡		
01926	14 17511	OOONO		420		CM	CHI,59,10+		
01938	47 01974			430		BNE	*&36 ‡		
	14 17515			440		CM	CHIE4,63,10#		
01950 01962	46 06354			450	<u> </u>	BE	XETURN#		
				460			CHI, 62, 10‡		
01974	14 17511			470		CM BE	STOP#		
01986	46 07160					CM	CHI,57,10+		
01998	14 17511			480					
02010	46 02210 46 02346			490 500		BE	OUTCHK‡ Inchk‡		
02022						BH			
02034	14 17511			510		CM	CHI,41,10‡		
02046	46 02402			520		BE	ACCEPT#	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
02058	14 17511			530		CM	CHI,45,10#		
02070	47 11754			540	 	BNE	ER1‡	10+	
02082	14 17517			550		CM	CHI&6 ,57	,10#	W.
02094	46 06334	01200	- 01	554		BE	ENDPRO#		

COMPUTER TECHNOLOGY

	LGCTN	OP.	P/L	Q	PG L	N	LABEL	MNEM	OPERANDS AND REMARKS PAGE 4
	02106	47	02138	01300	01 5	58		BL	* &32
~	02118		16099		01 5			TDM	TRACE&1 ,1=
	02130		00462		01 5			В	BEGIN#
	02138				01 5			DORG	* -3 ‡
	02138	45	06494	17519	01 5			BNR	EXPROC ,CHI&8‡
	02150		07324		01 5			В	END‡
	02158				01 5	90		DORG	*-3 ‡
	02158	43	02178	17521	01 5	91	CONIO	BD	*820 ,CHI&10#
	02170	49	11754	00000	01 5			В	ER1‡
	02178				01 5			DORG	*-3‡
	02178		01512		01 5			TFM	SDECOD-2 , IO2&88#
	02190			17522	01 5			TR	CHI-1 ,CHI&11+
	02202	49	01398	00000	01 5			В	BLANKS&12+
	02210				01 5				* -3 *
	02210		17513		01 6		OUTCHK		CHI&2,59,10#
	02222			C1200	01 6			BE	PRINT+
-	02234			01100	01 6			BNH	PAUSE‡
	02246		17510		01 6			TR	CHI-1, CHI 69 #
	02258			00003	01 6			CM	CHI,63,10+ +824+
	02270			01200	01 6			BNE TR	
_	02282 02294			17518 -2882	01 6			TFM	CHI-1,CHI&7‡ INST2&6,WACD‡
	02306		02482		01 6			В	101‡
-	02314	77	02402	00000	01 6				* -3 *
	02314	21	17510	17520	01 7		PRINT	TR	CHI-1,CHI&9#
	02326			-2954	01 7		1 (1211)	TFM	INST286, WATY+
	02338			00000	01 7			В	101‡
	02346		UL TUL		01 7				*-3
	02346	14	17511	00003	01 7		INCHK	CM	CHI,63,10‡
_	02358			17518	01 7			TR	CHI-1,CHIE7+
	02370			01200	01 7	60		BNE	RDCD#
	02382	16	13024	-2918	01 7			TFM	INST286 , WATYSC#
	02394	49	02482	00000	01 7	80		В	IO1#
	02402				01 7	90	, , , , , , , , , , , , , , , , , , , ,	DORG	* −3‡
_	02402	31	17510	17522	01 8		ACCEPT	TR	CHI-1,CHIE11‡
	02414			00003	01 8			CM	CHI,63,10‡
_	02426			01200	01 8			BNE	* £44
	02438			17518	01 8			TR	CHI-1,CHIE7#
	02450						RDCD	TFM	
	02462	49	02482	00000	01 8			В	101‡
_	02470				01 8				*-3*
	02470			-2834	01 8		TO 3	TFM	INST2&6, RATY +
_	02482			0C0K7	01 8		101	TFM	INST281,27,10‡
	02494			00009	01.8			CM	CHI,69,10= *&24=
-	02506			01100 0P173	01 9			BTM	ERROR, 7173, 8‡
	02518 02530			-2542	01 9			BTM	CFXN, #812‡
***	02542			08534	01 9			TF	*822,SMCNT-1‡
	02554			-0006	01 9			TEM	INST2811,6‡
	02566			0-000	01 9			TFM	INST2815,,8‡
	02577	• •	1		01 9			DC	1,0,**
	02578	27		14103	01 9			BT	PUT2,PUT2-1+
	02590			02812	01 9			TF	INST2&6, IOINST&6‡
-	02602			17513	01 9		102	BNR	102620,CH162#
	02614			00000	02 0			В	TESTDO#
1									

LECTN	CP	P/L	Q	pc	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE
02622	۰۳	r/L	<u> </u>		010	LMULL		*-3+
02622	14	17511	00083		020		CM	CHI,23,10#
02634		17508			030		TH	CHI-3,CHI-1#
02646		02602			040		BNE	102‡
02658		02702			050		BNR	*844 ,CHI&2+
02670		00892			060		TEM	BRC&6 ,CONIO+
02682		00546			064		В	BEGINE84‡
02690		00540	00000		070			*-3
02690	16	01512	-1514		075	· · · · · · · · · · · · · · · · · · ·	TFM	SDECOD-2 ,SDECOD+
02702		00698			080		TDM	SBSWCH#
02714		09582			090		BTM	CSORN, * &12+
02714		02749			100		TF	*&23,PUTETB&6#
02738		13025			110		TR	INST287#
02750		02774			120		BNR	*824,CHI&2+
02762		13024			130		TEM	INST286, COMPLT#
							BT	
02774		14104			140			PUT2, PUT2-1+
02786		10972			150		SM	PUTETB&6,9#
02798	49	02602	60060		160	· · · · · · · · · · · · · · · · · · ·	B	102‡
02806					170			*-3
02806	<u> </u>	03938	-2818		180	IOINST		SWC, LSUBS-1, 07#
02819		17			190	LSUBS	DAC	17.LCAD SUBROUTINES@#
02852		17510		02	200	FORMAT	TR	CHI-1,PHI-1‡
02864		02881			210		TF	#817,SMTLU1810#
02876		00004			220		AM	4,6,10‡
02888		02905			230		TF -	*817,SMTLU1810*
02900		00005			240		TDM	5,2,11‡
02912		16398			2.50		AM	BRINSTE6,6‡
02924		14940			260		BT	BG0&12,BG0&11‡
02936	16	03145	000J7		270		TEM	SWLP&1,17,10#
02948		03630			280		TFM	TRANS&18,PHI&6+
02960		17017			290		TR	PHI-3, FMTSP-10#
02972		03575			300		TEM	WIDTH ,80 ,10‡
02984	31	17510	17512		310	FSCAN	TR	CHI-1,CHI&1+
02996	45	03028	17511	02	320		BNR	*&32,CHI*
03008	16	00892	-3994	02	330		TFM	BRC&6 ,CONFMT#
03020	49	C0546	00000		34C		В	BEGIN&84‡
03028			,	02	350		DORG	*-3
03028	14	17511	000K3	02	360		CM	CHI,23,10+ ·
03040		02984		0.2	370		BE	FSCAN‡
03052	14	17511	000-0	02	380		C M	CHI,,10#
03064		02984			390		BE	FSCAN+
03076		17511			400		CM	CHI,24,10#
03088		03144			410		BNE	SWLP#
03100		03635			420		TFM	TRANSE23.LTPAR+
03112		03654			430		TFM	TRNSER&6, FSCAN+
03124		03145			440		TFM	SWLP&1,41,10#
03136		03612			450		В	TRANS#
03144	.,	03072	00000		460			
03144	17	11534	CP171		470	SWLP	BTM	ERROR,7171,8‡
03144			01100		480	SHEI	BNH	PUNCT#
02164	41				490		CM	CHI,40,10#
03156	1 4		UUUPU	UZ			BNH	CHCHI&12#
03168		17511		00			CIVIT	
03168 03180	47	04046	01100		500			
03168 03180 03192	47 14	04046 17511	01100 00009	0.2	51 0		CM	CHI,69,1C#
03168 03180 03192 03204	47 14 46	04046 17511 04182	01100 00009 01100	02 02	510 520	:	CM BH	CHI,69,10# HOLL#
03168 03180 03192	47 14 46 25	04046 17511 04182 03631	01100 00009	02 02 02	51 0	:	CM	CHI,69,1C#

	LCCTN	<u>OP</u>	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE O
	03240	14	17511	00061	02	550		CM ·	CHI	,41	,10+
	03252		03360			560		P.E	TIER#		
	03264		17511			570	,	CM	CHI,44,10	Դ±	
	03276		04046			580		BI	CHCHIE12		
	03288		03360			59C		BE	TIER#	·	
	03300		17511			600		CM	CHI,49,10	1+	
	03312		03360			610		BE	TIER#	7+	-
	03324		03563			62C		TFM	EFIND, 1	<u>7</u> ±	
	03336		17511			630		CW	CHI,46,1		
	03348		04046			640		ВН	CHCHIE12		
	03360		17510			650	TIER	TR	CHI-1,CH		
	03372	$\frac{31}{17}$		CCO-C		660	TIER	BTM	CFXN,00,		
	03384		03658			670		BTM	WIDTST,		•
			04079			680		TF	RPFMT821		
	03396					690		TFM	TRANS&23		
	03408		03635						PRETRN, E		
	03420		03552			700		BNF	CHCHI		
	03432		04034			710		PT -		,CHCHI-1#	
	03444	14	17511			720		CM	CHI,03,1		
	03456		04046			730		BNE	CHCHIE12		
	03468		17510			740		TR	CHI-1,CH		
	03480		04034			750		BT	CHCHI	,CHCHI-1#	
	03492		17511			760		CM	CHI,69,1		
	03504		04046			770		BNH	CHCHIE12		
	03516		09356			780		BTM	CFXN,,10	+	
	03528		17480			790		SF	SYM-1#	CVN+	.,
	03540		03635			8.00	PRETRN	TF	TRANS&23		
	03552	33	03632	00000		810	EFIND		7RANS&20	+	
	03563	2.2	2	00000		830	EFINU	DS CF		4	
	03564		03634 03635			840		SF	TRANS&22 TRANS&23		
	03576 03588		03631			850		SF	TRANS&19		
~			03654			860		TFM	· · · · · · · · · · · · · · · · · · ·	FSCAN&12+	
	03600 03612		03630			870	TRANS	AM	*&18,5,1		
	03624		17026			880	INAMA	TEM	PHI86#	U T	
	03636		17019			890		A	PHI-1,TR	ANCSII±	
	03648		00000			900	TRNSBR		± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	MITSULLT	
	03658	77	00000	00000		910	IMASSIN		*-1*		
	03658	22	17480	00000		920	WIDTST		SYM-1+		
	03670		03633			930	W10131	TF	TRANS&21	. CVM±	*
	03682		03575			940		S	WIDTH, SY		
	03694			01300		950		BN	*&36#	• • •	
	03706		17481			960		CM	SYM,,10#	· · · · · · · · · · · · · · · · · · ·	
	03718			01100		970		вн	CSDRN-26	±	
	03730		11534			980		BTM	ERROR, 71		
	03742		17511			990	PUNCT	CM	CHI,21,1		
	03754		03798			000		BNE	*&44#		
	03766		03635			010		TEM	TRANSE23	• SLASH#	
	03778			-2972		020		TEM		FSCAN-12#	·····
	03790			00000		030		В	TRANS#	•••••	
	03798		OJULL	00000		040			.*-3‡		
	03798	46	02984	01100		050		BH	FSCAN#		
	03810			CCO-4		060		CM	CHI,04,1	O ‡	
	03822			01200		070		BNE	CHCHIE12		
	03834			-3574	03	080		TEM	TRANS&23	,RTPAR≉	

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0_	LCCTN	CP	P/L	C	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 7
	03858	49	03612	00000	03	100		В	TRANS#
	03866					110			*−3 ‡
	03866	16	03896	J7020	03	120	FINISH	TFM	*&30,PHI+
	03878	21	03896	17019	03	130		A	*&18,PHI-1#
	03890	31	00000	16397		140		TR	,BRINST&5‡
- 7	03902	25	03925	17019	03	150		TD	#623,PHI-1#
	03914	43	03938	00210		160		BD	*&24,210‡
	03926	11	17019	000-1	03	170		AM	PHI-1,1,10#
	03938	26	17026	16243	03	180		TF	PHI&6.L+
-	.03950	21	17026	17019	03	190		A	PHI&6,PHI-1+
	03962	27	14664	17019		200		BT	PUTPHI,PHI-1#
	03974	16	00892	-0894	03	210		TFM	BRC&6 ,BRC&8‡
	03986	49	00462	00000	03	220		В	BEGIN‡
	03994				03	230		DORG	*−3 ‡
	03994	43	04014	17521	03	240	CONFMT	BD	*&20 ,CHI&10+
	04006	49	04046	00000	03	250		В	CHCHI&12#
	04014				03	260		DORG	#−3 ‡
	04014	.31	17510	17522		270		TR	CHI-1 ,CHI&11 +
	04026		029R6			280		В	FSCAN&12 , ,5‡
	04034					290		DORG	; * −3 ‡
	04034	45	09556	17511		300	CHCHI	BNR	CSORN-26 ,CHI+
	04046		11534			310		BTM	ERROR ,7171 ,8‡
	04058			-4126		320	RPFMT	TFM	TRANS-1 ,RPT1+
	04070			00000		330		SF	SYM-1#
	04082		04081			340		TF	#-1 ,SYM#
	04094		02996			350		В	FSCANG12‡
	04102	• -				360		DORG	G *−3‡
	04102	22	03575	04079		370	RPT2	S	WIDTH ,RPFMT&21+
	04114			01300		380		BN	PUNCT-12‡
	04126			-4102		390	RPT1	TFM	TRNSBR&6 ,RPT2#
				-2996		400		TFM	TRANS-1 ,FSCANE12+
	04150			000-1		410		SM	RPFMT&23 ,1 ,10‡
	04162			01100		420		ВН	TRANS#
	04174			00000		430		В	FSCAN&12+
	04182		• • • • • • • • • • • • • • • • • • • •			440			5 * -3 ‡
	03575					450	WIDTH	DS	,EFIND&12‡
	04182	17	09356	000-0		460	HOLL	втм	CFXN,,10‡
	04194			04033		470	1	ВТ	CHCHI , CHCHI-1+
				00007		480		CM	CHI,67,10#
	04218			01200		490		BE	* £104 ‡
	04230			000M8		500		CM	CHI,48,10#
	04242			01200		510	•	BNE	RPFMT+
	04254			000-0		520		втм	WIDTST , ,10±
	04266			-3690		530		TFM	TRANS&23, HTYPE+
	04278			-4434		540		TEM	HOLL1611, HCONT2+
	04290			17512		550		TR	CHI-1,CHI&1+
	04302			-4366		560		TFM	TRNSBR&6, HCONT1#
·	04314			00000		570		В	TRANS#
	04322	, ,	JJJ12			580			5 ±−3‡
	04322	17	03658	000-0		590		BTM	WIDTST , ,10+
	04322			-3654		600		TFM	TRANS&23 ,XTYPE+
	04346			-4490		610		TFM	HOLL1611 ,HCONT4624‡
	04358			00000		620		В	#-56#
	04366		0,502	30000		630			G *-3‡
	04366		03623	000-2		640	HCONT1		TRANS&11,2,10#
	04200	10	0,002	000 2		040	TOURT	1.1:	
									43

												0
<u> </u>	LOCTN	<u>OP</u>	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	8	
	04378		17480			650		SF	SYM-1#			
	04390		03635			660		TF	TRANS&23,SYM#			
	04402		03654			670	HOLL1	TFM	TRNSBR&6, HCONT2+			
	04414	49	03612	00000		680		В	TRANS#			
-	04422					690		DORG		·		
	04422		17510			700	HCONT3		CHI-1,CHI&1+			
	04434		03654			710	HCONT2		TRNSBR&6, HCONT4#			
	04446		03635			720		TF	TRANS&23,CHI+			
	04458	49	03612	00000		730		B	TRANS#			
	04466		17/01	000 1		740	UCONT/	DORG				
	04466		17481			750	HCONT4		SYM,1,10# HCONT3#			
	04478 04490		04422 03623			760 770		BP TFM	TRANS&11,5,10+			
	04502		02984			780		В	FSCAN+			
	04509	77	02 704	00000		790		DORG				
	04519		11			800	FMTSP	DC	11,74900000@#			
	04520	15	00699	00004		810	DIM	TDM	DMSWCH,4+			
	04532		17510			820	<u>Jan</u>	TR	CHI-1,CHI&17#			
	04544		09710			830		В	CS‡			
	04552		07110	00000		840			*-3*			
	04552	31	17510	17522		850	COMM	TR	CHI-1 ,CHI&11#			
	04564		00699			860		TDM		1#		
	04576		09710			870		В	CS*			
	04584					880		DORG	#-3‡			
	04584	31	17510	17516	03	890	IF	TR	CHI-1,CHI&5#			
*	04596		17240			900		TFM	PHI&220,49,10#			
)	04608		11631			910		TFM	DMM1,49,10#			
	04620		00697			920		TDM	FSTSW,1#			
	04632		00702			930		SF	IFSWCH#			
	04644	49	11634	00000		940		В	ASCAN&12#			
	04652					950		DORG				
	04652		17480			960		CF	SYM-1+			
	04664		17478			970		CF	SYM-3‡			
	04676		17476			980		CF	SYM-5‡			
	04688		17474			990		CF	SYM-7#			
	04700		17481			000		C	SYM, SENSE&8‡			
	04712 04724		04756 11534			010	ER6	BE BTM	IFSS‡ ERROR ,76 ,8	+		
	04724	11	11554	0-070		040	SENSE	DAC	10,SENSE#			
	04756	21	00000	05261		050	IFSS	TR	OUT ,IFSSRC+			
	04768		17523			060	11 33	CM	CHI&12,69,10#			
	04780		04840			070		BNH	*860*			
	04792		00009			080		TD	OUTE9 ,CHI&12#			
	C4804		17510			090		TR	CHI-1,CHI&15#			
	04816		17511			100		CM	CHI,69,10#			
	04828		04852			110		BH	*824‡			
_	04840		11534			120	ER7	BTM	ERROR ,77 ,8	+		
	04852		06020			130		TFM	KK&6 , OUT&5 ‡			
	04864	16	05151	COOKO		140		TFM	THAT&11,20,10#			
	04876	49	05068	00000		150		В	ELEVEN&12#			
	04884					160			* −3 †			
	04884		04907			170	TEN	TF	*&23,PUTETB&6#			
	04896		13009			180		TR	INST1&7#			
	04908	26	13008	16391	04	190		TF	INST186, TFFAC#			
_	04920		13018			200		TR	INST2, RVINST #			

04932 44 04952 12015 04 21C 3NF *620.INST1&13+ 04944 90 4964 0000C 04 22C 8 *8204 04952 71 4084 14083 04 240 BT PUTI.PUTI-1+ 04964 44 04988 13016 04 250 BT PUTI.PUTI-1+ 04964 44 04988 13016 04 250 BT PUTI.PUTI-1+ 04966 27 14104 14103 04 250 BT PUTI.PUTI-1+ 04966 47 04988 13016 04 250 BT PUTI.PUTI-1+ 04966 49 05042 13016 04 270 BT PUTI.PUTI-1+ 05012 10 0000 1512 04 280 TR CUT ,IFRCFL+ 05012 21 00000 1523 04 290 A CUT86 ,1+ 05012 21 00000 0512 04 300 B *2204 05024 49 05044 0000C 04 300 B *2204 05032 31 00000 05216 04 320 TR CUT ,IFRCFX+ 05012 13 00000 05216 04 320 TR CUT ,IFRCFX+ 05014 16 06020 -0041 04 330 EFF KK86 ,OUT641+ 05056 31 J7510 17512 04 340 ELEVEN TR CHI-1,CHI61;2* 05060 14 06020 -0044 04 350 FFF KK86 ,OUT641+ 05056 31 J7510 17512 04 340 ELEVEN TR CHI-1,CHI61;2* 05060 14 06020 -0044 04 350 FFF KK86 ,OUT641+ 05052 14 05116 01200 04 370 BNE *224 05014 16 06020 -0044 04 360 CFF KK86 ,OUT641+ 05052 14 05116 01200 04 370 BNE *241 05116 11 06020 0000 04 370 BNE *241 05116 10 06020 0000 04 380 TFF KK86 ,OUT654 05116 10 06020 0000 04 380 TFF KK86 ,OUT654 05116 10 06020 0000 04 380 TFF KK86 ,OUT654 05116 10 06020 0000 04 380 BNE ELEVENCHI62+ 05116 10 05020 0004 04 410 IHAT BTF UTX,44,104 05152 14 05060 0000 04 450 BNE ELEVENCHI62+ 051172 43 -0024 00053 04 450 IFRCF BNE *24,FRC-7,2+ 05116 49 00000 00000 04 450 BNE *24,FRC-7,2+ 05116 49 00000 00000 04 450 BNE *24,FRC-7,2+ 05116 49 00000 00000 04 450 BNE *24,FRC-7,2+ 05228 49 00000 00000 04 450 BNE *24,FRC-7,2+ 05228 49 00000 00000 04 450 BNE *34 05228 19 00000 00000 04 450 BNE *34 05240 19 0000 00000 04 450 BNE	LOCTN	СР	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	Q
04944 49 04964 00000 04 220 B * \$204 04952	04932	44	04952	13015	04	210		BNE	*£20.INST	1813#		
04952					04	220				1415.	,	
04952 27 14084 14083 04 240 BT PUTI.PUTI-1+ 04964 44 04988 13016 04 250 BNF \$224,INST18144 04976 27 14104 14103 04 260 BT PUTI.PUTI-1+ 05060 31 00000 0512 04 270 UD \$644,INST18144 05060 31 00000 0512 04 290 TR OUT ,IRECE+ 05012 21 00006 16243 04 290 A OUTE6 ,L# 05024 49 05044 00000 04 300 B *6204 05032 31 00000 05216 04 320 TR OUT ,IRECE+ 05032 31 00000 05216 04 320 TR OUT ,IRECE+ 05044 16 06020 -0041 04 330 B *6204 05056 31 J7510 17512 04 340 ELEVEN TR CHI-1,CHI61,24 05068 17 06002 -5080 04 350 ELEVEN TR CHI-1,CHI61,24 05068 17 06002 -5080 04 350 ELEVEN TR CHI-1,CHI61,24 05069 14 06020 -0041 04 360 CP KK66 ,UUT641* 05092 47 05116 01200 04 370 BNE *624* 05104 16 06020 -0004 04 300 BNR ELEVEN,CHI62* 05116 11 06020 0000 04 390 AM KK66,12,104 05124 45 05056 17513 04 400 BNR ELEVEN,CHI62* 05124 49 00462 0000 04 330 B ELEVEN,CHI62* 05125 16 0515 000P4 04 40 THAT BTM PUTX,44,104 05152 16 0515 000P4 04 420 THAT BTM PUTX,44,104 05152 16 0515 000P4 04 420 BNR ELEVEN,CHI62* 05124 49 00000 00000 04 330 B BEGIN* 05125 14 00000 00000 04 460 BNR ELEVEN,CHI62* 05126 49 00000 00000 04 450 BNR ELEVEN,CHI62* 05127 00 440 DORG *-3* 05128 49 00000 00000 04 460 BNR ELEVEN,CHI62* 05126 14 0000 00000 04 460 BNR ELEVEN,CHI62* 05127 00 440 BNR SELVEN,CHI62* 05128 49 00000 00000 04 460 BNR ELEVEN,CHI62* 05129 49 00000 00000 04 460 BNR ELEVEN,CHI62* 05126 10 04 400 BNR SELVEN,CHI62* 05127 10 04 400 BNR SELVEN,CHI62* 05128 40 00000 00000 04 460 BNR ELEVEN,CHI62* 05208 49 00000 00000 04 460 BNR SELVEN,CHI62* 05216 10 04 0000 00000 04 460 BNR SELVEN,CHI62* 05228 46 00000 0100 04 500 BNR SELVEN,CHI62* 05240 17 09356 -5306 04 600 BNR SERVEN,FAC-7,24* 05228 46 00000 0100 04 500 BNR SERVEN,FAC-7,24* 05228 17 17510 17514 04 590 DO TR CHI-1,CHI63* 05318 12 00004 00016 04 620 SNR H,810000000004 05318 12 00004 00016 04 600 BNR ERROR,RRH 05330 14 17510 17512 04 730 ELL TR MINSONOLEL; 1,164 05340 17 11534 C-078 C4 660 BNR SERVEN,FARH 05340 17 11534 C-078 C4 660 BNR SERVEN,FARH 05445 17 11534 C-078 C4 660 BNR SE		• •						DORG				
04976 27 14104 14103 04 260 BT FUT2, PUT2-1# 04988 43 05032 13016 04 270 BD *E444, INSTILL4# 05012 21 00000 61243 04 290 A *CUT5 *, IFRCFL# 05012 21 00000 61243 04 290 A *CUT5 *, IFRCFL# 05024 49 05044 00000 04 300 B *E204 05032 31 00000 05216 04 320 TR *, OUT *, IFRCFX# 05044 16 06020 -0041 04 330 D URG *-3# 05036 31 JT510 17512 04 340 ELEVEN TR *, KK66 *, OUT641# 05056 31 JT510 17512 04 340 ELEVEN TR *, KK66 *, OUT641# 05056 31 JT510 17512 04 340 ELEVEN TR *, KK66 *, OUT641# 05050 14 06020 -0041 04 360 CF *, KK65 *, OUT641# 05050 14 06020 -0041 04 360 CF *, KK66 *, OUT641# 05050 14 06020 -0041 04 360 CF *, KK66 *, OUT641# 05050 14 06020 -0041 04 360 CF *, KK66 *, OUT641# 05106 16 06020 -0000 04 370 BNE *, E244* 05116 11 06020 0003 04 390 CF *, KK66 *, OUT641# 0512 45 05056 17513 04 400 BNR *, ELEVEN, CHIE2# 05126 49 00462 00000 04 440 BNR *, ELEVEN, CHIE2# 05126 49 00462 00000 04 430 BR ELEVEN, CHIE2# 05126 49 00462 00000 04 440 D GRG *-3# 05172 04 440 OCK *, ACC *,	04952	27	14084	14083	04	240		BT				
C4988	04964											
05010 31 00000 6172 04 280 TR CUT , IFRCFL+ 05012 21 00000 61624 04 290 A CUT66 , L+ 05024 49 05044 00000 04 300 B *6204 05032 31 00000 05216 04 320 TR OUT , IFRCFX+ 05044 16 0602 -0041 04 330 TFM KK66 , 0UT441+ 05066 31 JT510 17512 04 340 ELEVEN TR CHI-1, CHI61; 2* 05068 17 06002 -5080 04 350 EIM STATNO; *6124 05066 17 06002 -5080 04 350 EIM STATNO; *6124 05066 17 06002 -5080 04 350 EIM STATNO; *6124 05062 47 05116 01200 04 370 BNE *6244 05062 47 05116 01200 04 370 BNE *6244 05104 16 06020 -00041 04 360 BNE *6244 05104 16 06020 -00041 04 360 BNE *6244 05104 17 14630 00004 04 410 THAT BTM PUTX, 44, 104 0512 16 05151 00044 04 420 TFM *-1,44, 104 0512 16 05151 00044 04 420 B B EEIN+ 0512 16 05151 00044 04 420 B B EEIN+ 0512 43 -0024 00053 04 450 IFRCFL B 24, FAC-7, 2‡ 05124 49 00000 00000 04 430 B BEGIN+ 05128 49 00000 00000 04 460 BN B BEGIN+ 05129 64 00000 00000 04 460 B B BEGIN+ 05126 64 00000 00000 04 470 BNF , FAC4 05126 60 0000 00000 04 450 BR FAC4 05228 49 00000 00000 04 450 BB FAC4 05228 49 00000 00000 04 510 BE \$ 05228 40 00000 00000 04 510 BE \$ 05226 1 0 4550 DE BH \$ 05226 1 0 4550 DE G SAR B B B B B B B B B B B B B B B B B B B												
05012 21 00006 16243 04 290 A 0U166 , L# 05022					04	270						
05024 49 05044 00000 04 300										•		
C5032										, L+		·
05032 31 00000 05216 04 320		49	00044	00000								
05044 16 06020 -0041 04 330		31	00000	05216						• IFRCFX#		
05056 31 J7510 17512 04 340 ELEVEN TR CHI-1,CHIE1,2# 05068 17 06002 -5080 04 350 PIM STATNO,*812# 05080 14 06020 -0041 04 360 C# KKE5 JUUTE41# 05092 47 05116 01200 04 370 BNE *624# 05104 16 6020 -0005 04 380 TFM KKE612,10# 05128 45 05056 17513 04 400 BNR ELEVEN,CHIE2# 05140 17 14630 000M4 04 410 THAT BTM PUTX,44,10# 05152 16 05151 000M4 04 420 TFM *-1,44,10# 05152 16 05151 000M4 04 430 BREGIN# 05172 04 440 DCRG *-3# 05184 49 00462 00000 04 450 BREGIN# 05172 43 -0024 00053 04 450 FRCE BE 24,FAC-7,2# 05184 49 00000 00000 04 450 BNF ,FAC# 05196 44 00000 00000 04 460 BNF ,FAC# 05208 49 00000 00000 04 480 BNF ,FAC# 05216 05000 00000 04 480 BNF ,FAC# 05228 46 00000 01000 04 500 FRCE BE 24,FAC-7,8# 05228 40 00000 01000 04 500 FRCE BE 24,FAC-7,8# 05228 40 00000 01000 04 500 FRCE BE 24,FAC-7,8# 05228 40 00000 01000 04 500 FRCE BE 24,FAC-7,8# 05228 49 00000 00000 04 500 FRCE BE 24,FAC-7,8# 05228 10 0000 00000 04 500 FRCE BE 24,FAC-7,8# 05228 10 0000 00000 04 500 FRCE BE 24,FAC-7,8# 05260 04 540 DCRG *-3# 05260 1 04 550 DC 1,## 05261 1 04 550 DC 1,## 05261 1 04 550 DC 1,## 05262 1 1 04 550 FC DC 1,## 05263 1 7510 17514 04 590 DU TR CHI-1,CHIE3# 05306 26 05323 08454 04 610 TF *817,SMTU1610# 05330 14 17511 00003 04 630 CM CM CHI,23,10# 05354 17 1534 0-078 04 660 BM ERECH# 05366 17 09582 -5378 04 670 BTM CRNN,*812# 05378 KG COUL 05385 04 690 TF OUTE1, #611 05402 26 05689 08535 04 690 TF OUTE1, #611 05402 16 05528 -5689 04 720 TFM KAYE4,0SADOR* 05426 16 05528 -5689 04 720 TFM KAYE4,0SADOR*												
C5080							ELEVEN	TR	CHI-1,CHI	£1,2‡		,
05092	05068											
C5104										,OUT&41#		
OS116										CUTCEA		
05128 45 05056 17513 C4 400 BNR ELEVEN, CHIEZ# 05140 17 14630 00004 04 410 THAT BIM PUTX, 44,10# 05152 16 05151 C0004 04 420 TFM = -1,44,10# 05164 49 00462 C0000 04 430 B BEGIN# 05172 04 400 DDRG = -3# 05172 43 -0024 00053 04 450 IFRCFL BL 24, FAC-7,2# 05184 49 00000 00000 04 460 B # 05196 44 00000 00000 04 460 B # 05208 49 00000 00000 C4 480 B # 05216 14 00060 00000 04 450 IFRCFL BL 24, FAC+7, 8# 05228 46 00000 01200 04 510 BE # 05228 46 00000 01200 04 510 BE # 05240 46 00000 0100 04 520 BH # 05252 49 00000 00000 04 530 B # 05260												
O5140												
O5152							THAT					
C5164 49 00462 C0000 04 430 B BEGIN							111/21					
05172									• •		•	
05184 49 00000 00000 04 460 B								DORG		·		
05196 44 00000 00060 04 470 BNF ,FAC‡ 05208 49 00000 00000 04 480 B	05172						IFRCFL	80	24, FAC-7,	2‡		
05208 49 00000 00000 04 480									-			
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C5216		49	00000	00000								•
05228		1.	00040	0000			IEDCEV					
05240 46 00000 01100 04 520 BH							IFKCFX					
05252												
05260												
05261							~	DCRG	*-3‡			
05272 11 04 570 DC 11,600000000000000000000000000000000000	05260											
05281 9 04 580 DC 9,49000000@# 05282 31 17510 17514 04 590 DO TR CHI-1,CHI&3# 05294 17 09356 -5306 04 600 BTM CFXN,*&12# 05306 26 05323 08454 04 610 TF *&17,SMTLU1&10# 05318 12 00004 000L6 04 620 SM 4,36,10# 05330 14 17511 000K3 04 630 CM CHI,23,10# 05342 47 05366 01200 04 640 BNE *&24# 05353 1 04 650 DC 1,@,*# 05354 17 11534 0-078 04 660 BTM ERROR,78,8# 05366 17 09582 -5378 04 670 BTM CSORN,*&12# 05378 K6 00011 05389 04 680 TF OUT&11 ,*&11 ,0# 05390 26 00006 08535 04 690 TF OUT&11 ,*&11 ,0# 05402 26 05689 08535 04 700 TF DSADO ,SMCNT# 05414 16 05704 0-001 04 710 TFM DSADO&15,1,8# 05426 16 05528 -5689 04 720 TFM KAY&6,DSADO# 05438 31 17510 17512 04 730 ELL TR CHI-1,CHI&1# 05450 14 17511 000P0 04 740 CM CHI,70,10#							IFSSRC					
05282 31 17510 17514 04 590 DO TR CHI-1, CHI&3 ‡ 05294 17 09356 -5306 04 600 BTM CFXN, *&12 ‡ 05306 26 05323 08454 04 610 TF *&17, SMTLU1&10 ‡ 05318 12 00004 00016 04 620 SM 4,36,10 ‡ 05330 14 17511 000K3 04 630 CM CHI,23,10 ‡ 05342 47 05366 01200 04 640 BNE *&24 ‡ 05353 1 04 650 DC 1, 2, * ‡ 05354 17 11534 0-078 04 660 BTM ERROR, 78,8 ‡ 05366 17 09582 -5378 04 670 BTM CSORN, *&12 ‡ 05378 K6 00011 05389 04 680 TF OUT&11 ,*&11 ,0 ‡ 05390 26 00006 08535 04 690 TF OUT&1 ,*&11 ,0 ‡ 05402 26 05689 08535 04 700 TF DSADO, SMCNT ‡ 05414 16 05704 0-001 04 710 TFM DSADO&15, 1,8 ‡ 05426 16 05528 -5689 04 720 TFM KAY&6, DSADO ‡ 05438 31 17510 17512 04 730 ELL TR CHI-1, CHI&1 ‡												
05294 17 09356 -5306 04 600 BTM CFXN,*&12‡ 05306 26 05323 08454 04 610 TF *&17,SMTLU1&10‡ 05318 12 00004 000L6 04 620 SM 4,36,10‡ 05330 14 17511 000K3 04 630 CM CHI,23,10‡ 05342 47 05366 01200 04 640 BNE *&24‡ 05353 1 04 650 DC 1,2,*‡ 05354 17 11534 0-078 04 660 BTM ERROR,78,8‡ 05366 17 09582 -5378 04 670 BTM CSORN,*&12‡ 05378 K6 00011 05389 04 680 TF OUT&11 ,*&11 ,0‡ 05390 26 00006 08535 04 690 TF OUT&1 ,*&11 ,0‡ 05402 26 05689 08535 04 700 TF DSADO ,SMCNT‡ 05414 16 05704 0-001 04 710 TFM DSADO&15,1,8‡ 05426 16 05528 -5689 04 720 TFM KAY&6,DSADO‡ 05438 31 17510 17512 04 730 ELL TR CHI-1,CHI&1‡		21	_				D.O.		. •			
05306 26 05323 08454 04 610							שט					
05318 12 00004 000L6 04 620 SM 4,36,10‡ 05330 14 17511 000K3 04 630 CM CHI,23,10‡ 05342 47 05366 01200 04 640 BNE *&24‡ 05353 1 04 650 DC 1,2,** 05354 17 11534 0-078 04 660 BTM ERROR,78,8‡ 05366 17 09582 -5378 04 670 BTM CSORN,*&12‡ 05378 K6 00011 05389 04 680 TF OUT&11 ,*&11 ,0‡ 05390 26 00006 08535 04 690 TF OUT&6 ,SMCNT‡ 05402 26 05689 08535 04 700 TF DSADO ,SMCNT‡ 05414 16 05704 0-001 04 710 TFM DSADO&15,1,8‡ 05426 16 05528 -5689 04 720 TFM KAY&6,DSADO‡ 05438 31 17510 17512 04 730 ELL TR CHI-1,CHI&1‡											4	
05330 14 17511 000K3 04 630												
05342 47 05366 01200 04 640 05353 1 04 650 0C 1,2,** 05354 17 11534 0-078 04 660 BTM ERROR, 78,8* 05366 17 09582 -5378 04 670 BTM CSORN, *E12* 05378 K6 00011 05389 04 680 TF OUTE11 ,*&11 ,0* 05390 26 00006 08535 04 690 TF OUTE6 ,SMCNT* 05402 26 05689 08535 04 700 TF DSADO ,SMCNT* 05414 16 05704 0-001 04 710 TFM DSADO&15,1,8* 05426 16 05528 -5689 04 720 TFM KAY&6,DSADO* C5438 31 17510 17512 04 730 ELL TR CHI-1,CHI&1* 05450 14 17511 000P0 04 740 CM CHI,70,10*										0 ‡		
05354 17 11534 0-078 04 660 BTM ERROR, 78, 8‡ 05366 17 09582 -5378 04 670 BTM CSORN, *£12‡ 05378 K6 00011 05389 04 680 TF OUT£11 , *£11 ,0‡ 05390 26 00006 08535 04 690 TF OUT£6 ,SMCNT‡ 05402 26 05689 08535 04 700 TF DSADO ,SMCNT‡ 05414 16 05704 0-001 04 710 TFM DSADO&15,1,8‡ 05426 16 05528 -5689 04 720 TFM KAY&6, DSADO‡ 05438 31 17510 17512 04 730 ELL TR CHI-1, CHI&1‡ 05450 14 17511 000P0 04 740 CM CHI,70,10‡					04	640		BNE	The second secon			
05366 17 09582 -5378 04 670 BTM CSORN,*E12‡ 05378 K6 00011 05389 04 680 TF OUTE11 ,*E11 ,0‡ 05390 26 00006 08535 04 690 TF OUTE6 ,SMCNT‡ 05402 26 05689 08535 04 700 TF DSADO ,SMCNT‡ 05414 16 05704 0-001 04 710 TFM DSADO&15,1,8‡ 05426 16 05528 -5689 04 720 TFM KAY&6,DSADO‡ 05438 31 17510 17512 04 730 ELL TR CHI-1,CHI&1‡ 05450 14 17511 000P0 04 740 CM CHI,70,10‡												
05378 K6 C0011 C5389 O4 680 TF OUT&11 ,*&11 ,0# 05390 26 C0006 C8535 O4 690 TF OUT&6 ,SMCNT# 05402 26 C5689 C8535 O4 7CO TF DSADO ,SMCNT# 05414 16 C5704 C-CC1 C4 710 TFM DSADO&15,1,8# 05426 16 C5528 -5689 O4 720 TFM KAY&6,DSADO# C5438 31 17510 17512 O4 730 ELL TR CHI-1,CHI&1# C545C 14 17511 CCOPO C4 740 CM CHI,70,10#												
05390 26 00006 08535 04 690 TF							,,,,,,,,,,,				<u> </u>	***
05402 26 05689 08535 04 7C0 TF DSADO ,SMCNT \$ 05414 16 05704 0-001 04 710 TFM DSAD0&15,1,8 \$ 05426 16 05528 -5689 04 720 TFM KAY&6,DSADO \$ 05438 31 17510 17512 04 730 ELL TR CHI-1,CHI&1 \$ 05450 14 17511 000P0 04 740 CM CHI,70,10 \$											9 ∪ + ·	
05414 16 05704 0-001 04 710 TFM DSADD&15,1,8‡ 05426 16 05528 -5689 04 720 TFM KAY&6,DSADO‡ 05438 31 17510 17512 04 730 ELL TR CHI-1,CHI&1‡ 05450 14 17511 00000 04 740 CM CHI,70,10‡							7					
05426 16 05528 -5689 04 720 TFM KAY86,DSAD0‡ 05438 31 17510 17512 04 730 ELL TR CHI-1,CHI&1‡ 05450 14 17511 00000 04 740 CM CHI,70,10‡												
C5438 31 17510 17512 04 730 ELL TR CHI-1, CHI&1 + C545C 14 17511 CCOPO G4 740 CM CHI, 70, 10 +												
05450 14 17511 000P0 04 740 CM CHI,70,10‡							ELL					
									CHI,70,1			
	05462	46	05486	01300	04	750		BNL	*&24#			

LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE
05474	17	09582	-5510	04	760		ВТМ	CSORN, #836#
05486		09356			710		BTM	CFXN,,10#
05498		08535			780		TF	SMCNT, SYM#
05510		05528			790		AM	*618,5‡
05522		00000			800	KAY	TF	, SMCNT +
05534		05438			810	The state of the s	BNR	ELL,CHI&2#
05546	26	00011	05694	04	820		TF	0UT&11 ,DSAD0&5#
05558	44	05582	00008		830		BNF	*&24 ,OUT&8‡
05570		00000			840		TOM	OUT ,1 ,11#
05582		14630			850		BTM	PUTX,12,10+
05594	26	05694			360		TF	DSADG&5,L#
05606	26		05648		862		TF	*&35 ,EMM&6+
05618		05641			864		AM	*823 ,19 ,10‡
05630		11516			866		BNR	NDSPCE+
05642		00000			870	EMM	TR	,DSAD0-4+
05654		05648			880		AM	*-6,20 [‡]
05666		08535			890		TF	SMCNT, MEMCAP-1#
05678	49	00462	00000		900		B	BEGIN‡
05685		20005			910	0.5400		*-4*
05689			-0000	04	920	DSADO	DSA	0,0,0,0
05694			-0000					
05699			-0000					
05704			-0000	0.4	930		DC	1,0+
05705	21	1 17510	17510		940	GOTO	TR	CHI-1,CHI&7+
05706 05718		17511			950	3010	CM	CHI,24,10‡
05730		05798			960		BE.	COMPUT#
05742		00000			970		TR	OUT ,GGG+
05754		09356			980		BTM	CFXN, #612‡
05766		00005			990		TF	CUT&5 ,SMCNT-1#
05778		14630			000		BTM	PUTX,8,10‡
05790		00462			010		В	BEGIN#
05798				05	020		DORG	5 * -3 ‡
05798	16	06020	J7091		030	COMPUT	TEM	KK&6,PHI&71‡
05810		17017		05	040		TR	PHI-3,GOTORC-3#
05822	15	00698	00001	05	050		TDM	SBSWCH,1#
05834	31	17510	17512		060		TR	CHI-1,CHI&1+
05846		06002		05	070		BTM	STATNO, #812#
05858		17019			080		AM	PHI -1,4,10#
05870			000-4		090		AM	KK&6,4,10‡
05882			17510		100		BD	CCMPUT&24,CHI-1#
05894		17055			110		А	PHI&35,L#
05906		17062			120		Α	428PHI,L‡
05918		17074			130		A	54&PHI,L#
05930		17510			140		TR	CHI-1, CHI & 3 +
05942		09582			150		BTM	CSORN, *&12+
05954		00698			160		TDM	SBSWCH, D # PHI&6, SMCNT #:
05966			08535		170		TF	PUTPHI,PHI-1+
05978			17019		18 <u>0</u>		8 T B	BEGIN#
05990			00000			STATNO		CFXN, * &12+
06002		00000	-6014 08534		200 210	KK	TF	,SMCNT-1#
06014 06026			08454		220	IV IV	TF	*&22,SMTLU1&10
, 06038			00005		230		BNF	*832,5‡
06050			06001		240		TF	*618,STATNO-1#
UCUJU	20	00000	COUCL		<u>- TU</u>			~~~ 7 ~ · · · · · · · · · · · · · · · ·

0_	LOCTN	<u>OP</u>	P/L	Q	PG	LŃ	LABEL	MNEM	OPERANDS AND R	EMARKS	PAGE	11	O
	06062	49	00000	00000	05	250		В	‡				
	06069					260		DORG	#-4#	····			
	06070	26	06092	08454		270		TF	*&22,SMTLU1&10	ŧ			. 8
	06082		06102			280		BNF	* &20,4 	<u> </u>			
	06094		06050			290		В	KK&36#				
	06102					300	-	DORG	*- 3 ‡	-			
	06102	26	06119	08454		310		TF	*&17,SMTLU1&10:	k .			
-	06114		00005			320		TFM	5,90‡				
	06126		06050		05	330		В	KK&36‡				
•	06134					340		DORG	* −3‡				
	06134	17	06566	-6146	05	350	BEGPRO	BTM	GETNO, *&12*				
	06146		00000			360		TR	OUT ,BERI	EC‡			
	06158	21	00005	08534	05	370		A	OUT&5 , SMCI	NT-1#			
	0617C	17	14630	00016	05	380		BTM	PUTX,16,10#				
	06182	26	06199	08454		390		TF	*&17,SMTLU1&10:	‡			
	06194	26	00004	16243	05	400		TF	4,L‡				
	06206	26	88000	C8535	05	410		TF	88,SMCNT#				
	06218	26	16398	16243	. 05	420		TF	BRINST&6,L#				
	06230	33	16394	00000		430	•	CF	BRINST&2#				
	06242	31	00089	16454	05	440		TR	89,CRAM-3#				
	06254	31	00091	16392	05	450		TR	91,BRINST#				
	06266	31	00098	16455	05	460		TR	98, CRAM-2#				
	06278	27	14976	14975	05	470		BT	COMGO,COMGO-1#	•	4.0		
_	06290	21	00006	16243	05	480		Α	\$1, 63TUO				
	06302	26	00010	08534	05	490		TF	OUT&10 ,SMC	VT-1#			
	06314	17	14630	00012	05	500		BTM	PUTX,12,10#				
<u> </u>	06326	49	00462	00000		510		В	BEGIN#				
	06334					520		DORG	* −3 ‡				
_	06334	32	06354	00000	05	530	ENDPRO	SF	XETURN#				
	06346	49	06366	00000	05			В	XETURN&12#				
	06354					550		DORG	# - 3 ‡				
	06354	33	06354	00000		560	XETURN	CF	XETURN#				
	06366	17	06566	-6378		570		BTM	GETNO, *&12*				
	06378	31	00000	06690	05	580		TR		€C&8 ‡			,
	06390			08454	05	590		TF	*622,SMTLU1610	‡			
	06402	21	00006	00004	05	600		A	OUT&6 ,4+				
_	06414	17	14630	8-000	05	610		BTM	PUTX,8,10#			-	
	06426		00462		05	620		BNF	BEGIN, XETURN#				
	06438	26	16249	08535	05	630		TF	LODER, SMCNT+				
	06450	12	16249	00010	05	640		SM	LODER, 10, 10+				
	06462	26	16398	16243	05	650		TF	BRINST&6,L#				
	06474	27	14928	14927	.05	660		BT	BGO,BGO-1#				
	06486	49	00462	00000	05	670		В	BEGIN#				
	06494				05	680		DORG	*-3 				
	06494			-6506		690	EXPROC		GETNO, # & 12#				
	06506	31	00000	06711		700		TR	OUT ,EXR				
	06518	- 26	00005	08534		710		TF		NT-1#			
	06530			16243	05	720		Α	0UT&11 ,L#				
	06542			000J2		730		BTM	PUTX,12,10#				
	06554	4.9	06724	00000		740		В	TESTDO#				
	06566			17512		750	GETNO	TR	CHI-1,CHI&1+			-	
	06578	14	17511	00009		760		CM	CHI,69,10#				
	06590			C1100		770		BNH	*-24*				
	06602			-6614		780		BTM	CFXN, #&12#				
() _	C6614	26	06655	08454	05	790		TF	*841,SMTLU1810	‡			
-			*										

	LOCTN	OР	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 12
	06626	26	06660	08454	05	800		TF	*834,SMTLU1810*
	06638		06655			810		SM	*£17,1,10 [‡]
	06650		00009			820		TF	9,9‡
	06662		06680			830		TF	*£18,GETNO-1‡
	06674		98765			840	7	В	98765‡
	06681					850			*-4*
	06682	49	-0010	00000		860	BEREC	В	10,,25‡
-	06690					870			*-3 *
	06690	49	-000Q	00000		880		В	8,,26‡
	06698		0004			890			#-3#
	C6698	26	-000K	00001		900		TF	2,1,26‡
	06710	20	1	00001		910		DC	1,0#
	06711		ī			920	EXREC	DC	1,1‡
	06717		6			930	LXXLO	DC	6,700002‡
	06723		6			940		DC	6,00012a‡
	06724	44	03974	00701		950	TESTDO	BNF	CONFMT-20 , DOSWCH+
	06736		00000			960	123100	TR	OUT ,DORCRD#
	06748		05648			970		SM	EMM&6,20#
	06760		06783			980		TF	#623,EMM&6#
	06772		00040			990		TR	OUT&40#
			06802			000		TF	#618,#-1
	06784 06796		00000			010		TDM	# 4
		15	1	00000		020		DC	1,2,**
	06807	11		-0010		030			#-6,10
	06808		06802					AM	
	06820		06838			040 050		TF TF	*618,*-18* ,CRAM*
	06832								
—	06844		06838			060		AM TF	*-6,10* *&18,*-18*
	06856		06874			070		TF	*G10;***10+ ;CRAM+
	06868		00000			080		TF	OUT&6 ,OUT&44+
	06880		00006						
	06892		00011			100		TF	OUT&11 ,OUT&59* OUT&18 ,OUT&44*
	06904		00018			110		TF	
	06916		00023			120	·	TF TF	OUT&23 ,OUT&54+ OUT&30 ,OUT&49+
	06928					130			
	06940		06964			140		BNF	*824 ,OUT&7‡
	06952		00000			150		TDM	OUT •2‡
	06964		06988			160		BNF	*824 ,OUT&19‡
	06976		00012			170		TDM	OUT&12 ,2‡
	88690		14630			180		BTM	PUTX,36,10‡
	07000		01153			190		AM	SLOT ,36,10‡
	07012		06736			200		BNE	TESTDO&12‡
	07024	49	03974	00000		210		B	CONFMT-20#
	07031					220	20000		*-4*
	07031		1			230	DORCRD	DC	1,1‡
	07042		11			240		DC	11,100000000000
	07054		12			250		DC	12,1400000000000
	07067		13			260		DC	13,470000001100@#
	07070		3			270		DC	3,68‡
	07071		1			280	GOTORC		1,1‡
,	07000		9			290		DC	9,300009000‡
	07080				0.6	300		DC	2,04
	07082		2						· · · · · · · · · · · · · · · · · · ·
			12		06	310		DC	12,320009500000‡
	07082 07094 07101		12 7		06 06	310 320		DC	7,1100099‡
	07082 07094		12		06 06 06	310			

LECTN	GP	P/L	O		LN	LABEL		OPERANDS AND REMARKS	PAGE	Y
07130		12			350		DC	12,260006500000\$		
07131		1			360	GGG.	DC	1,4‡		
07139		8			370	CONTIN	DC	8 ,9000000@#		
06724	1.	12002	00040		380	CONTIN		,TESTDO#	,10±	
07140		13003			390	PAUSE	TEM	INST181 ,48	1104	
07152 07160	49	07284	00000		420		B	ENDX-32+ +-3+		***************************************
07160	31	17510	17518		450	STOP	TR	CHI-1,CHI&7#		
07172		13009			460	3101	TF	INST187, CONTRL-1#		
07184		07224			470		В	CONTRL & 24#		
07192			-		480			* -3 *		
07192	J 7	02452	-0000		490		втм	STOPSR ,	•07±	
07200					500		DORG	* −3‡		
07200	31	17510	17524		510	CONTRL		CHI-1,CHI&13#		
07212	16	13003	000L4	06	520	-	TEM	INST1&1,34,10#		
07224		09356			550		BTM	CFXN,,10#		
07236		13013			560		TF	INST1&11,SYM#		
. 07248		13010			570.		CF	INST188‡		· · · · · · · · · · · · · · · · · · ·
07260		07284			580		BNR	*&24,CHI‡		
07272		13013			590	·	TEM	INST1611‡	· .	
07284		13014			595		TR	INST1812 , CRAM-4+		
07296		14084			600		BT	PUT1, PUT1-1#	·	
07308	49	06724	00000		610		Bone	TESTDU# #-3#		
07316 07316	4.0	02562	00000		620	ENDX	B	ENDSR#		
07323	47	02362			640	ENUA		#-4 ‡		
07323		1			650		DC	1,2‡		
07324	31	00000	67316		660	END	TR	OUT ,ENDX+	e de la companya de	U
07336		14630			670		BTM	PUTX,8,10#		
07348		14864			680		TEM	DUMP854, *820+		
07360		14810			690		В	DUMP#	-	
07368		-		06	700	4	DORG	*-3 ‡		
07368	16	14864	J4700	06	710		TEM	DUMP&54,PUTPHI&36#		,
07380		07400			720		BNR	*&20,IMAGE*		
07392	49	07424	00000		730		В	*&32‡		
07400	:				740	-		+ −3 +		·
07466		07424			750		BD	*&24,SKPPCH*		
07412		16937			760			IMAGE‡		Mark
07424		16868			770.		TF	BUFBAS&6,L‡		
07436		17481			780 790		TEM.	SYM,999,9‡ CSORN-1,*&20‡		
07448 07460		09581 08388			800		B B	SMTLU#		
07468	47	00300	<u> </u>		810			*-3+		
07468	26	16873	08535		820		TF	BUFBAS&11.SMCNT#		
07480		16878			830		TF	BUFBASE16, SMTLU1E11+		
07492		16879			840		TR	BUFBAS&17, USEDFS#		
07504		16929			850		TR	BUFBASE67, MEMCAP-5+		
07516		07575			870	DOI	TF	*859, MEMCAP-1+		
07528	26	07558	16850	06	088		TF	*830,MEMCAP-1#		
07540		17670			890		BC1	PSTA8#		
C 7 552	34	00000	CC162		900		RCTY			
07559		1	***************************************		910		DC	1, 3, *-4+		
07564		07985			920		TF	DOIT-3#		
07576		C7640			930		BNF	NOTCON ,DOIT-3#		· · · · · · · · · · · · · · · · · · ·
07588		C7620			940	EVACCE	BNF	FLPCON ,DOIT-6#		
07600	16	07758	-1982	<u>U 6</u>	950	EXPCON	1 F M	wnumbee ,DCIT-6‡		

	LOCTN	CP	P/L	C	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE 44
	07/13		0771/	50000	0.	060		r.	1: ATIDO A	
	07612 0762C	49	07716	00000		960 970		BCBC	WADDR	
	07620	1.6	07758	-7076		980	FLPCON		WNUM886 .DOIT-12#	
	07632		07716			990	TETCON	В	WACDR#	
	07640	777	CITTE	00000		000			*-3*	
	0764C	44	07696	07983		010	NOTCON		NOTACC, DUIT-5#	
	07652		07985			020		CM	DGIT-3,999,9‡	
	07664		17670			030		BE	PSTAB#	
	07676		C7758			040		TEM	WNUMBE6,DOIT-5#	
	07688		C7716			050		В	WADDR#	
	07696					060		DORG	#-3#	
	07696	44	07796	C7982	07	070	NOTACC	BNF	VAR, DOIT-6+	
	07708	49	07600	ccccc		080		В	FXPCGN#	
	07716					090			*-3 ‡	
	07716	38	07554	CC100		100	WADDR		DCI & 38 ‡	
	07728	34	00000	CC1CJ		110			,,11‡	
	07735		1			120		DC	1,2,*-4‡	
	0774C		07816			130		BNF	VAR&20, #-1#	
	07752		00000			140	WNUMB	WNTY		
	07764		07575			150	RETURN		DCI&59,10,10#	
	07776		07558			160		SM	DBI842,10,10+	
	07788	49	07540	00000		170		В	DOI&24#	
	07796					180			#-3#	
	07796		67739			190	VAR	CF	WADDR&23‡	
	07808	49	07716	00000		200		B	WADDR#	
	07816	20	07077	00100		2.10 220			*-3‡ DOIT-11‡	
	07816 07828		07977 07739			230		SF	WADDR&23‡	
	07840		07874			240		TF	*&34,DCI&58#	
	07852		07874		07	250		SM	* £22,1,10 ‡	
	07864		07764			260		BNF	RETURN,5‡	
*	07876			07874		270		TF	*822,*-2‡	
	07888		07908			230		BNF	* £20,6 ‡	
	07900		07764			290		В	RETURN#	The second secon
	07908	• •				300			*-3‡	44
	07908	26	07930	C7874		310		TF	*622, VARE 78=	
	07920			00009		320		TF	DCI842,9#	
	07932	34	00000	00101	07	330		SPTY	‡	
	07944		07554			340			DOI&38‡	
	07956		07575			350		SM	DOI859,20,10#	
	07968	49	07776	CC000		360	***************************************	В	RETURN&12#	
	07985		6			370		DS	6‡	
	07986		1			380		DC	1,0+	
	07987		1			390		DC.	1, a +	
	98620					400	DCIT	DS	,*£1‡	
	07988			00459		410	EXIT	BD	MOGN7-24, SKPPCH+	
	08000			00300		420		BC3	LCCP‡	
	08012			16864		430		TR	402, BUFBAS&2‡	
	08024			-0152		440	STOPER	BCTV	STOPER, 152, 7#	
	08036			00102		450	STUPER			
	08048			00100		470 480		RNCD	LSUBS‡	
	08060			00500		490		8. B.	* . *	
	08072	77	1			1500		DC	1,2,*-4+	
	08080	•	1			510			*-3‡	· 👝
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O	LOCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	15	O
	08080	15	16912	1,0000	07	520	LOGP	TDM	BUFBAS&50,1,11#			
-	08092		16863			530		TFM	BUFBAS&1,402#			
	08104		16859			540			LOAD-2+			
	08116		02813			550			LSUBS-6+			
	08128		08031			560			STOPER-5#			
W * 1	08140		00000			570		RCTY	#			
	08152		16779			580			EOC‡			
	08164		08182			590	MOON7	TF	*&18,FCTEND+		·	
	08176		00000			600	.,	TF	,CRAM#			
· -	08188		08241			610		TF	*&53,*-7*			 .
	08200		08182			620		SM	*-18,10,10	4.1		
	08212		08182			630	······································	CM	*-30,LAST&12#			
	08224		08176			640		ВН	*-48			
	08236		80000			650		TDM	8#			
	08248		05648			660		TF	EMM&6,MOON7&18#			
	08260		16313			670	·	S	USEDFS&49,USEDFS&49+	* *		
	08272		K0000			680		K	20000 ,20102	,2‡		
***	08279	37	KOOOO	ZUIUZ		685	INCREM		, #-4‡	74.	····	
	08284	15	16099	00001		687	INCINER	TDM	TRACE&1 ,1#			
	08296		16819			690			LSTM#			
			N1000			700		NOP	E1000	,2‡		
*	08308	41	NIOOO	00000	07		F1	DS .	• • • •	944		
	08319	1 5	08309	00000		710	LI	TDM				
	08320		16458			720	······································		*-11,8‡ ZERCR1‡			
	08332								ZERCR2-2#			
	08344		16538			730						
	08356		16618			740			LROUT#			- (D-
	08368		16698			750 760		B	LROUT2‡ INITL‡	· · · · · · · · · · · · · · · · · · ·		
	08380	49	00402	00000				-	#-3‡			
	08388	26	COEDE	1/050		770	CMTIII		SMCNT, MEMCAP-1#			
	08388		C8535			780	SMTLU	TF.		v *		
	C8400		08454			790	·	TF	SMTLU1810, MEMCAP-2#			
	08412	49	08444	00000		800		B	SMTLU1#			
	08420		00531			810	CNI OCO		*-3 			
	08420		08534			820	SMLOOP		SMCNT-1,1,10#			
	08432			000-1		830		SM	SMTLU1&10,1,10#			
	08444			00009		840	SMTLU1		COMP,9‡			
	08456			17489		850		BNF	*&32,COMP-2#			
	08468		08420			860		BNF	SMLOOP, SYM-2#	i dina		
	08480	49	08704	00000		870		<u>B</u>	SMTST#			
	08488					880			*−3 ‡			
	08488			17487		890	····	BNF	SMNOT, COMP-4#	<u> </u>		
	08500			17490		900		TF	SMCNT-1,COMP-1+	er s		
	08512			00000		910		TDM	CDMP-4,0‡	· · · · · · · · · · · · · · · · · · ·		
	08524	49	08420	R9999		920	4	В	SMLOOP,99999,7#			
_	08535				07	930	SMCNT	DS	,**			
	08536			17491		940	SMNOT	BNR	SMTST, COMP#			,
	08548			17490		950		BNR	NOSPCE, COMP-1+			
	08560			08454		960		TF	*&17,SMTLU1&10+			
moreon.	08572			17481		970		TF ·	9,SYM#			
	08584			17481		980		BNF	MOON3,SYM#			
	08596			00000		990		CF	SYM#			***
	80680	15	17482	00000		000		TDM	SYM&1#			
	08619		1			010		DC	1,2,**			
	08620	31	00089	17472		020		TR	89,SYM-9#			
()	08632	26	00088	08535	08	030		TF	88,SMCNT#			
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	LCCTN	úР	P/L	Q	PG.LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 16
						,		
	08644		14976		08 040		BT	COMGO,COMGO-1‡
	08656		08972		08 050	MOON3	BD	DMM, DMSWCH*
	88380		17511		08 070		CM	CHI,24,10‡
	08680		11440		08 080		BNE	PUTETA-12‡
	08692		11534		08 090		BTM	ERROR, 72, 8‡
	08704		17481		08 100	SMTST	C	SYM, COMP#
	08716		08420		08 110		BV	SML00P#
	08728		08420		08 120		BNE	SML00P#
	08740		17491		08 130		<u> </u>	COMP, SYM#
	08752		08420		08 140		BV	SML00P#
	08764		17483		08 150		TR	COMP-8,ETAC-7#
	08776		C8455		08 160		C	SMTLU1811,FCTEND#
	08788		11416		08 170		BNH	PUTETA-36‡
	08800		08822		08 180		TD	*622,SMCNT-1#
	C8812		08836		08 190		BD	*&24,200
	08824		08534		08 200		AM	SMCNT-1,1,10#
	08836		08890		08 210		TFM	+&54,USEDFS-51+
	08848		08883		08 220		TF	#635,SMCNT-1#
	0886C		08882		08 230		SF	* £22 ‡
	08872		08890		08 240		AM	* £18, ‡
	08884		16213		08 250		TDM	USEDFS-51,1‡
	08896		08535		08 260		TDM	SMCNT.0+
	80680		17511		08 270		TFM	CHI,46,10‡
	08920		11705		08 280		TDM	FXORFL#
	08932		09581		08 290		TFM	CSORN-1, *&20‡
١	08944	49	11452	00000	08 300		В	PUTETA#
	08952				08. 310		DORG	
	08952		00697		08 320		TDM	FSTSW,1#
	08964	49	12690	00000	08 330		B	TFSAVE#
	08971				08 340		DORG	
	08972		09231		08 350	DMM	TF	DIMONT, SMCNT*
	08984		17511		08 351		CM	CHI ,24 ,10‡
	08996		09028		08 352		BE	*632‡
	9008		09300		08 354		BNF	DIMC-32 ,DMSWCH+
_	09020	49	09232	00000	08 356		В	DIMB&12+
	09028				08 358		DORG	
	09028		08454		08 360		SM	SMTLU1610,1,10#
	09040		09105		08 370		TF	DIMAES, SMTLU1E10+
	09052		09225		08 380		TF	DIMB&5,SMTLU1&10+
	09064		09230		08 390		AM	DIMONT-1,1,10+
	09076		17508		08 400		TR	CHI-3,CHI-1‡
	09088		09356		08 410	DIMA	BTM	CFXN,0,10‡
	09100		19994		08 420 08 430	DIMA	TF	19994, SYM#
			1 / 5/11 12		1)× 4(4(1)		TR	CHI-3,CHI-1+
	09112			17510		*	CM	CUI-7 & 104
	09112 09124	14	17509	000-4	08 440		CM	CHI-2,4,10‡
	09112 09124 09136	46	17509 09332	01200	08 440 08 450		BE	DIMC#
	09112 09124 09136 09148	14 46 26	17509 09332 17491	000-4 01200 17481	08 440 08 450 08 460	-	BE TF	DIMC+ SYM&10,SYM+
	09112 09124 09136 09148 09160	14 46 26 17	17509 09332 17491 09356	000-4 01200 17481 000-0	08 440 08 450 08 460 08 470		BE TF BTM	DIMC SYM&10, SYM CFXN,, 10
	09112 09124 09136 09148 09160 09172	14 46 26 17 23	17509 09332 17491 09356 17491	000-4 01200 17481 000-0 17481	08 440 08 450 08 460 08 470 08 480		BE TF BTM M	DIMC SYM&10, SYM CFXN,, 10 SYM&10, SYM
	09112 09124 09136 09148 09160 09172 09184	14 46 26 17 23 32	17509 09332 17491 09356 17491 00096	000-4 01200 17481 000-0 17481	08 440 08 450 08 460 08 470 08 480 08 490		BE TF BTM M SF	DIMC SYM&10, SYM CFXN,, 10 SYM&10, SYM 96
	09112 09124 09136 09148 09160 09172 09184 09196	14 46 26 17 23 32 31	17509 09332 17491 09356 17491 00096 17508	000-4 01200 17481 000-0 17481 00000 17510	08 440 08 450 08 460 08 470 08 480 08 490 08 500		BE TF BTM M SF TR	DIMC SYM&10, SYM CFXN,, 10 SYM&10, SYM 96 CHI-3, CHI-1
	09112 09124 09136 09148 09160 09172 09184 09196	14 46 26 17 23 32 31 22	17509 09332 17491 09356 17491 00096 17508 09230	000-4 01200 17481 000-0 17481 00000 17510 00099	08 440 08 450 08 460 08 470 08 480 08 490 08 500 08 510	DIND	BE TF BTM M SF TR	DIMC SYM&10, SYM CFXN,, 10 SYM&10, SYM 96 CHI-3, CHI-1 DIMONT-1, 99
	09112 09124 09136 09148 09160 09172 09184 09196 09208 09220	14 46 26 17 23 32 31 22	17509 09332 17491 09356 17491 00096 17508	000-4 01200 17481 000-0 17481 00000 17510 00099	08 440 08 450 08 460 08 470 08 480 08 490 08 500 08 510 08 520	DIMB	BE TF BTM M SF TR S	DIMC SYM&10, SYM CFXN,, 10 SYM&10, SYM 96 CHI-3, CHI-1 DIMONT-1, 99 19999,
	09112 09124 09136 09148 09160 09172 09184 09196	14 46 26 17 23 32 31 22 16	17509 09332 17491 09356 17491 00096 17508 09230	000-4 01200 17481 000-0 17481 00000 17510 00099 -0000	08 440 08 450 08 460 08 470 08 480 08 490 08 500 08 510	CIMB DIMONT	BE TF BTM M SF TR	DIMC SYM&10, SYM CFXN,, 10 SYM&10, SYM 96 CHI-3, CHI-1 DIMONT-1, 99

	CTN	CP	P/L	Q	D.C.	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	
	244		00699			550	LAUCE	TDM	CMSWCH#		
	256		00462			560		В	BEGIN#		
	264			00000		570			*-3*		
	264	14	17511	000K3		580		CM	CHI,23,10#		
	276		17508			596		TR	CHI-3,CHI-1#		
	288		09312			600		BE	*824‡		
	300		11534			610		ВТМ	ERROR, 79,8‡		
	312		09710			620		BNR	CS,CHIE2#		•
	324		09300			630		В	*-24		
09	332				. 08	640		DORG	#-3‡		
09	332	22	09230	17481		650	DIMC	S	DIMONT-1,SYM#		
0.9	344	49	09220	00000	80	660		В	DIMB#		
09	356	16	17477	0-000	90	67C	CFXN	TEM	SYM-4,,8‡		
09	368	16	09398	J7477	80	680		TEM.	*830,SYM-4*	·	
09	380	11	09398	000-1	0.8	690		AM	*&18,1,1 0 		
09	392	25	17478	17511	80	700		TD :	SYM-3,CHI#		
C	34C4	31	17508	17510	80	710		TR	CHI-3,CHI-1#		
09	3416	45	09436	17511		720		BNR	#&20,CHI#		
09	428	49	09484	00000		730		В	* 856 		
09	3436					740			#-3#	· · · · · · · · · · · · · · · · · · ·	,
09	9436		17511			750		CM	CHI,,10#		
	9448		09404			760		BE	*-44‡	<u> </u>	
. 09	946C		17511			770		CM	CHI,69,10#		
	9472		09380			780		BH	CFXN624‡		
	9484		09398			790		CM	CFXNE42,SYM#		
	9496		10570			800		BH	EXCESS#		
	9508		09531		0.8	810		TF	#&23,CFXN&42#		
	952C		17481			820	·	TF	SYM#		
	9532		17478			830		SF	SYM-3‡		
	9544		09558			340		8NF	*&14,CFXN-2=		
	9556	42	00000	CC-COC		850		BE	*		
	9558	~ ~	00501	00255		038			#-9‡		
	9558		09581			870		TF	CSORN-1,CFXN-1+		
	9570		88880			880	CC00A	B	SMTLU#		
	9582			000-31		890	CSORN	CM	CHI,3,10‡ FXORFL‡		
	9594		11705			900		TDM	NUMBER#		
	9606		09958					BE			
	9618		17511 09958			920		CM BNL	CHI,70,10‡ NUMBER‡		
	9630 9642		17511			946		CM	CHI,48,10‡		
	9654		09674			950		BH	*820‡		
	9666		09710			960		В	CS#		
	9674	7,	07110	00000		970			*-3‡		
	9674	14	17511	COONS		980		CM	CHI,55,10#		
	9686		09710			990	 	BH	CS#		
	9698		11705			000		TDM	FXCRFL,2‡		
	9710		09740			010	CS	TEM	SALTEG, SYM-8+		
	9722		17482			020	.03	TF	SYM&1,ZERO9#		
	9734		17473			030	SALT	TF	SYM-8,CHI+		
	9746		17508			040	- · · · · ·	TR	CHI-3,CHI-1#		
	9758			000-2		050		A⊁	SALT&5,2,10#		
	977C		17511			060		C M	CHI,40,10#	,	
	5782			01300		070		BNL	SYMCHK#		
	9794			00000		080		CF	SYM-1+		
	9806			ccoco		090	,	CF	SYM-3#		
	9818			00000		100		CF	SYM-5+		

LOCTN	CP	P/L	6	PG I	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE 18
09830	23	17474	00000	C 9	110		CF	SYM-7#	
09842		08388		.09			<u>ў.</u> В	SMTLU#	
098FC	' '	00000	00000	09				*-3+	
C9850	14	10116	J7478	09		FXNUMB		NUMBIE6 ,SYM-3+	
09862		11705		09			TDM	FXORFL,2‡	
09874		10570		09			ВН	EXCESS#	
09886		17473		09			TEM	3YM-8 .	,8‡
09898		09921		09			TF	#823,NUM8186#	
<u> </u>		17482		09			TF	SYME1#	
09922		17481		09			ST	SYM#	
<u> </u>		17478		0.9			SF	SYM-3‡	
09946		C8388		09		NUMBER	В	SMTLU#	
09958		17481		0.9		NUMBER		SYM ,F1+	
09970		09957		09			TFM TFM	NUMBER-1, NUMB3#	
<u> </u>		10116 17511		09 C9	260		CM -	NUMB1&6 ,SYM-7+ CHI,70,10+	
10006		10038		09			BNE	*&32‡	
10018		17510		09			TR	CHI-1,CHI&1#	
10030		09994		09			В	*-36‡	
10038		07774	00000	09				*-3 	
10038	14	17511	000-3		310	NUMB	CM	CHI,3,10‡	
1C05C		10166		09			BE	FLNUMB#	
10062		17511			330		CM	CHI,69,10#	
10074		09850		09			BNH	FXNUM8‡	
10086	14	10116	J7481	09	350		CM	NUMB186,SYM#	
10098		10122		09	3.60	-	ВН	NUMB1812#	
1C11C		00000		09		NUMBI	TO	,CHI‡	
10122		17510			380		T٩	CHI-1,CHI&1+	
10134		10116			390		AM	NUMB186,1#	
10146			000-1		400	NUMB5	AM	SYM-8 ,1	,010#
10158	49	10038	00000		410		B	NUMB‡	
10166	2.	10220	1011/		420	EL NELWO	DORG	*-3+ NUMB2&6,NUMB1&6+	
10166 10178		10328 17473			430 440	FLNUMB	CM	SYM-8 ,51	,10‡
10178			01200		450		BE	#824 ‡	9 10 +
10202			JC334		460		TEM	NUMBER-1, NUMB2&12#	
10214		10268			470		TF	VARBRE6, NUMBER-1+	
10226		17473		09	480	NUMB3	SM	SYM-8 ,1	,10‡
1c238			17512		490		TR	CHI-1,CHI&1+	
10250			CCOPO		500		CM	CHI,70,10‡	
10262			01200		51C	VARBR	BE	‡	
10274			01100		520		BNH	CMPAR#	
10286	16	10268	J0334		530		TFM	VARBREG, NUMB2E12#	
10298			J7481		540		CW	NUMB286 ,SYM#	
10310			01100		<u>550</u>		ВН	NUMB2812#	
10322			17511		560	NUMB2	TO	,CHI+	
<u>10334</u>			-0001		570		<u> </u>	NUMB286,1‡	
10346	49	10238	00000		580		B	NUMB3&12#	
10354	• •	17771	00040		590	CNUVD		*-3‡	,
10354			CCOM5		600	CMPAR	C.M.	CHI, 45, 10#	
10366			01200 10156		610		BNE TF	PLUS&12# PLUS&10,NUMB5&10#	
10378			10156 000K0		620 630		CM	CHI&2,20,10#	
10390 10402			01300		640		BL	*636‡	
10402			01200		650		BNE	*&36 ‡	
10717	7 (10770	ULLUU	<u> </u>			3,017.5		

0	LOCTN	OP	P/L	Q	D.C.	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	19	
	10426		10535			660	LAULL	TDM	PLUS &1,2+	, AUC		
	10428		17510			670		TR	CHI-1,CHI&1+			
	10450		10545			680		TD	PLUS&11,CHI&2+			
	10462		17510			690		TR	CHI-1,CHI&3+			
	10474		17511			700		CM	CHI,69,10#			
	10474		10534			710		BNH	PLUS#			
٠			10544			720		S	PLUSE10,PLUSE11#			
	10498								PLUS&11, CHI+			
	10510		10545			730 740		TD TR	CHI-1, CHI & 1 +			
	10522		17510				DLUC					
	10534		17473			750	PLUS	AM	SYM-8‡			
	10546		10570			760		BV	EXCESS#			
	10558		10582			770	EVECCE	BNF	*824 ,SYM-8‡			
	10570		11534			780	EXCESS		ERROR ,73	+ 8 +		
	10582		11705			790	·	TDM	FXORFL,0#			
	10594		17481			800		SF	SYM#			
	10606		08388			810		BD	SMTLU, SYM-7#			
	10618		17473			820		TFM	SYM-8	, 10‡		
٠	10630	49	08388	00000		830		В	SMTLU#			·
	10638					840		_	* -3 *			•
	10638		09740			860	SYMCHK		SALT&6,SYM&2+			
	10650		09734			870		BNE	SALT#			
	10662		04724			880	1	BNF	ER6 , IFSWCH#			
	10674	49	04652	00000		890		В	IF&68‡			
	10682					900			+-3+	· ·		
	10682		10716			920	SCRIPT		*&34,SMTLU1&10+			
	10694		10717			930		SM	*&23,10,10#			
	10706		08692			940		BNF	SMTST-12,5#			
	10718		10740			950		TF	*822,*-2=			
	10730		10750			960		BNF	*&20,6 			
	10742	49	08692	00000		970		B	SMTST-12#			
	10750			00000		980			#-3‡			
	10750		00698			990		TDM	SBSWCH, 2‡			-
	10762		10997			000		TR	ETAN, ETAC-8#			
	10774		11001			010		TF	ETANEA, SMCNT#	-:		
	10786		11000			020		AM	ETAN&3,1,10#			
	10798		10832			030		TF	#834, SMTLU1&10#			
	10810		10832			040		SM	*&22,1,10 			
/	10822		00004			050		TF	OUT 64 ,4 #			
	10834		11192			060		BTM	COLECT, #&12#			
	10846		00005			070		TR S	OUTE5 ,SYMBSB-4#			
	10858		11000			080			ETAN&3, NOMB‡			
	10870		17511			090		CM	CHI,23,10#	•		
	10882		11016			100	OHERV	BE	TWODIM# GORE ,OUT&9#			
	10894		11108 17510			110	QUERY	BNF TR	CHI-1,CHI&1+			
	10906 10918		00698			130		TDM	SBSWCH#			
	10918		11004			140		TD	ETAN&7,FXORFL#			
	10942		11484			150		BD	PETA, FLAGSW#			
	10942		10972			160		AM	*£18,9,10‡			
	10966		00000			170	PUTETB		,ETAN+			
1000 - 10 1000	10978		10996			180	TOILID	TF	*618,CSORN-1*			
	10990		98765			190		В	98765‡			
	10997	,	20102	00000		200	ETAN	DS	, #-4#			
	11005	*	4			210	~ 1 mit	DS	4‡			
-	11014		9			220	ETAC	DC	9,0+			
	11016	17	11192			230	TWODIM		COLECT, * & 12 +			
- L	11010		***/	31320			. 11,00211					

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	LCCTN	6P	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	20
	11028	31	00010	16245	10	240		TR	001810	,SYMBSB-4#	:	
	11040		00004			250		М	OUT&4	,NOMB#		
	11052		00096			260		SF	96‡			
	11064		11000			270		S	ETANE3,99)±		-
	11076		11000			280		A	ETAN&3	,0UT&4#		
-			11108			290		BNF	GORE	,001614#		
	11088									90016144		
	111CC	49	10894	00000		300		B	QUERY#			
	11108					310			#-3#			
	11108		11495			320	GORE	AM	SUBN, 1, 10			
	11120	26	11003	11495	10	330		TF	ETANE6, SI	JBN‡		
	11132	13	11495	000J5	10	34 0		MM	SUBN, 15,	LO ‡		
~	11144		11174			350		TFM	#830,TOP8	£1 		
	11156		11174			360		S	*&18,99 			
	11168		00000			370		TR		,OUT&1#		
	11180		10906			380		В	QUERY&12			
	11192		11385			390	COLECT	TDM	FAGR 81,3			
							CULLUI	TEM				
	11204		16249			400			SYMBSB.O.	1114		
	11216		11395			410		TFM	NOMB, 8#	. 614		
	11228		17510			420		TR	CHI-1,CH			
	11240		17511			430		CM	CHI,69,10	JŦ.		
_	11252		11360			440	***************************************	ВН	FAGR-24#	*		
	11264		09710			450		BTM	CS,2,10#			
	11276	26	16249	08535	10	460		TF	SYMBSB, SI			
	11288		17511		10	470		CM	CHI,10,10)‡		
	113CC	46	11348	01200	10	480		BE	#&48 #			
	11312		17511			490		CM	CHI,20,10	0#	Act 11 Cold In	
O	11324		11396			500		BNE	FAGRE12#			
	11336		11385			510		TDM	FAGRE1,2	<u> </u>		
	11348		17510			520		TR	CHI-1,CH			
	11360		09356			530		BTM	CFXN,,10			
						540		TF	NOMB, SYM			
-	11372		11395 11395			550	FAGR	CF	NOMB#	·		
	11384						FAGR			"CT 1.1		:
	11396		11414			560		TF	*618,COL	CI-1#		
	11408	. 49	00000	00000		570		В	+			
	11416					580			*-3 			
	11395					590	NOMB	DS	FAGRE11			
-	11416			000K4		600		CM	CHI,24,10			,
	11428	46	10682	01242	10	610		BE	SCRIPT, 4	2‡		
	1144C	43	11438	00698	10	620	·	BD	*-2, SBSW	CH#		
	11452	31	10997	11006		630	PUTETA	TR	ETAN, ETA	C-8 		
	11464	26	11001	08535	10	640		TF	ETANE4, SI	MCNT#		
	11476		10930			650		В	QUERY&36			
	11484	• •				660		DORG	*-3			
-	11484	22	11004	00000		670	PETA	SF	ETAN&7#			
	11495	JE	2			675	SUBN	DC	2	, 0	,*‡	•
		15	00700			680	JUDIN	TDM	FLAGSW, 0:		y - y	
	11496											
	11508	49	10954	00000		690		B	PUTETB-1	<u> </u>		
	11516					700			*-3‡			
	11516	17		C-074		7 20	NOSPCE		ERROR, 74	, 8‡		· · · · · · · · · · · · · · · · · · ·
	11532		5			730		DS	5‡			
	11534			11533		740	ERROR	TF		O,ERROR-1#		
	11546	39	11599	00100		750		WATY	ERRMSS#			
	11558	15	00459	00001		760		TDM	SKPPCH,1	,11‡		
_	11570	15	00839	00001		765		TDM	TYST&1	,1‡		
	11582			cccco		770		В	CONFMT-2	0‡		
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<u> </u>						*			•		~
LOCTN	CP	P/L	Q	D.C	LN	LABEL	MAIEM	OPEDANOS	AND REMARKS	PAGE	
11589	UF	<u> </u>	А.		780	LABLE		#-4#	AND KENAKKS	TAGE	
11597		9			785	ZERO9	DC	9	, 0 ‡		
11599		12			790	ERRMSS	DAC	12,ERROR			
11622	16	11631	000-0		830	ASCAN	TEM	OMM1,00,			
11631	10	2	000 0		835	CMM1	DC	2	,	• *-2 *	
11634	16	15219	00-00		840	CINIL	TEM	ACC,,9#	•		
11646		15128			850		TFM		PHI&220#		
11658		10972			860		TEM	PUTETB&6			
11670		11942			870	S	BNR	SSA, CHIE			
11682		11631			880		CM	OMM1,33,			
11694		11766			890		BE	SSB#		:	
11705		1	01100		895	FXORFL	DS	1	,* ‡		
11706	14	11631	OCOKM		900	.,	CM	OMM1,-24			<u>-</u>
11718		11754			910		BE	*836			
11730		11531			920		CM	OMM1,24,	10#		
11742		12558			930		BNE	SS#	- - ·		
11754		11534			940	ER1	BTM	ERROR	,71	, 8 ‡	
11766		13040			950	SSB	BTM	CCDE, 10:		•	
11778		15922			960		BNF	FCF	,EQSW#	·····	
11790		11858			970		30	863*	,INST1&14#		
11802		11838			980		BD	*836	, INST2&14#	· · · · · · · · · · · · · · · · · · ·	
11814		11878			990	EQ2	BNF	EQ3	,INST1&12#	e a Car	
11826		11910			000		BNF	EQ4	.INST2&12#		
11838		00696			010		CF	ECSW#	• • • • • • • • • • • • • • • • • • • •		
11850		15922			020		В	FCF#			
11858					030		DORG	*-3			
11858	43	11814	13032		040	***************************************	BC	EQ2	,INST2814#		
11870		11838			05C		В	*-32#			
11878			3 3 2		060		DORG	*-3‡			
11878	31	13004	13009		070	EQ3	TR	INST182	,INST1&7#		
11890			13025		080		T.R	INST187	,INST2E7#		
11902	49	16150	00000	11	090		В	ZOT&12#			
11910					100		DORG	*-3‡			
11910	26	13008	13013	11	110	EQ4	TF	INST186	, INST1&11+		
11922			13029		120		TF	INST1E11	,INST2811#		
11934			00000	11	130		В	ZOT#			
11942					140		DORG	*-3*			
	14	17511	CCOMO	11	150	SSA	CM	CHI,40,1	0#		
11954	47	11990	01100	11	160		BNH	*&36			
11966			00000		170		TDM	FSTSW#			
11978			J1670	11	180		BTM	CSORN,S#			
11990			000L3		190		CM	CHI	,33	•10 	
12002			01200		200		BE	* £24 ‡			
12014			00000	11	210		CF	EQSW#	·		
12026			00010		220		CM	CHI,10,1	0#		
12038	46	12250	01200	11	230		BE	\$\$001#			
12050			CCOKO		240		CM	CHI,20,1	0‡		
12062			01200		250	1	BE	SS4#			
12074			00000	11	260	-	TOM	FSTSW#			
12086			CCO-4		270		CM	CHI,4,10	‡		
12098			01200		280		BE	SSCA1#			
12110			000K1	11	290		CM	CHI,21,1	0#		
12122	46	12606	01200		300		BE	SS1#			
12134			CCOJ4	11	310		CM	CHI,14,1	0 ‡		
12146			01200		320		3 E	SS3 ‡			_
12158	14	17511	CCOK4	11	330		CM	CHI,24,1	0#	·	

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LOCTN	OP	P/L	Q	ьC	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE Q2
12170	46	12370	C120C	11	340		8E	SS5#	
12182		17511			350		C M	CHI,33,10#	
12154		12678			360		BE	\$\$6‡	
12206		17511			370		CM	CHI,3,10‡	
12218		11966			380		8 E	SSA824#	
12230	49	11754	<u> </u>		390		B	ER1‡	
12238	, -	00700	00005		400	C C /		#-3‡ . ELACCH EA	
12238 12250		00700 12282			410	SS4 SS001	TDM BD	FLAGSW,5+ +&32,FSTSW+	
12262		00700			430	33001	TOM	FLAGSW,0=	
12274		12558			440		В	SS#	
12282	1,	12330	00000		450		_	*-3 	
12282	15	00697	00000		460		TDM	FSTSW, C‡	
12294		17510			470		TR.	CHI-1,CHI&1+	
12306		11670			48C		В	S‡	
12314					490		DORG	* −3 ‡	
12314		17513			500	S S 3	CM	CHI&2,14,10+	
12326		12606			510		ENE	SS1 	
12338		17508			520		TR	CHI-3,CHI-1#	
1235C		00700			530		TDM	FLAGSW,5#	
12362	49	12654	- CCOCC		540		В	SS2‡	
12370	·	20/27	00001		550	CCE		*-3‡	
12370		00697			560	\$\$5	TDM	FSTSW, 1#	
12382		15219 15098		$\frac{11}{11}$	570 580		AM B	ACC,1,10‡ PUTOMG‡	
12394 12402	49	15098			590		_	#-3‡	
12402	14	11631	CCOL 3		6.00	SSCAI	CM	OMM1,33,10#	
12414		11754			610	33071	BE	ER1‡	
12426		12462			620		BNF	SSC , IFSWCH+	
12438		17513			630		CM	CHI&2,23,10#	
12450		04840		11			BE	ER7#	
12462	14	11631	CCOK4		650	SSC	CM	OMM1,24,10#	
12474		12942		11	650		ВE	SSCA#	
12486		11631			670		CM	GMM1,-24,10#	
12498		12850			630		BE	SSCB#	
12510		11631			690		CM	CMM1,46,10#	
12522		15570					8 E	CFCT#	
12534		11631			710 720		CM	OMM1,49,10#	
12546		04884 11631			730	SS	BE CM	TEN# OMM1,10,10#	
12558 12570			01200		740	33 .	BE	CADD#	
12582			CCOKO		750		CM	OMM1,20,10#	
12594		13552			76C		BE	CSUB#	
12606		11631			770	SS1	CM	CMM1,21,10#	
12618		13548		11			BE	CDIV#	,
12630	14	11631	000J4	11	790		C M	OMM1,14,10#	
12642	46	13628	01200	11	008		8 E	CMULT#	
12654	14	11631	CCOJM	11	810	SS2	CM	CMM1,-14,10#	
12666			01200	11			BE	CEXP‡	
12678		00697			83C	SSE	TOM	FSTSW,1‡	
12690			00006		840	TESAVE		INST181,6#	
12702		12737			850		TF	*835,PUTETB&6‡	
12714			000-9	11			SM TD	*823,9,10#	
12726			00000		870 880		TR	INST182# INST1812.0#	
12738 12750			00000 13010		890		DNE	PUTOMG, INST188#	
12130	- 44	T .030	10010	<u> </u>	030		(2181	1 O 1 O 1 O 7 INO FIGUR	

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)	LCCTN	СP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 23	
	12762	44	12782	13012	11	900		BNF	*620, INST1810+	
	12774		15098			910		В	PUTOMG#	
-	12782					920	-	DORG		
	12782		13013			930		TFM	INST1811 ,FAC#	
	12794		14084			940	·	BT	PUT1,PUT1-1#	
	12806		128 36 128 36			950 960		TF	*&30,TFSAVE&47*	
	12818 12830		00000			970		SF .	*&18,8,10 [‡]	
	12842		12382	1		980		B.	SS5&12 ‡	
-	12850		LLJUL	00000		990			*-3 ‡	
	12850	26	12885	10972		000	SSCB	TF	*&35,PUTETB&6*	
	12862		12936			010		TF	#&74,PUTETB&6#	
	12874		13009			020		TR	INST187, #	
	12886		12918			030		BNF	*&32,INST1&14‡	
	12898		13016			040		CF	INST1814#	
	12910	49	12930	00000		050		В	*620 	
	12918		12017	00000		060			*-3‡	
	12918		13016			070		SF	INST1814#	
	12930		00000 17510			080 090	SSCA	TR TR	,INST1&7+ CHI-1,CHI&1+	
	12942 12954			000-2			33CA	SM	PUTOMH&6,2,10#	
	12966		12989			110		TF	*823,PUTOMH86#	
	12978		11631			120		TF	OMM1, # "	
	12990		11670			130		В	S#	
	13002		00060			140	INST1	TF	FAC+	
	13017		4			150		DC	4,3‡	
	13018	27	00480	C0000		170	INST2	BT	FAD‡	
	13033		4			180		DC	4, a ‡	
	13038		5			190		DS	5‡	
	13040			16391		200	CODE	TF	INST186, TFFAC+	
	13052			CCOK7		210		TFM TF	INST2&1,27,10# CODA&11,PUTETB&6#	
	13064 13076			10972 10972		220 230		TF	#823, PUTETB&6#	
	13078			00000		240		TR	INST287#	
	13100			000-9		250		SM	*823,9,10 [‡]	
	13112			00000	12	260	CODA	TR	INST187#	
	13124			13032		270		BD	#826, INST2814#	
	13136			13016		280		BD	CODC, INST1814#	
	13148			00000	12	290		BB	<u> </u>	
	13150					300			* -9 *	
	13150			13016		310		BD	CODD, INST1814+	
	13162			CCOJM		320		CM	OMM1,-14,10#	
	13174			01200		330		BE	FXEXP#	
	13186			000L3		340		CM	DMM1,33,10#	
***********	13198 13210			01200 0-075		350 360	CODF	BE BTM	FLOAT+ ERROR, 75, 8+	
	13210			0-075 000M0		370	CODD	AM	OP,40,10#	
	13234			00000		380	COOD	BB	‡	
	13236	• • .	23000			390			* -9 ‡	
	13236	14	11631	CCOL3		400	CODC	CM	OMM1,33,10#	
	13248			01200		410		BE	FIX‡	
	13260			00000	12	420		В	CODF#	
	13268			·		430			*-3*	
	13268	16	13783	J6319	12	440	CADD	TFM	OP,AFAD+	
I	13280			000-0		450		BTM	CODE,,10#	227

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LOCTN	CP	P/L	Q	P.G.	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	24
13792	1. 1.	13412	12016	12	460		BNF	CADDH, INST1&14+		
13304		13500			470		BNF	CADDK, INST2814#		
13316		00700			480		TDM	FLAGSW, 3+		•
13328		13372			490		BNF	CADDB, INST2&13+		
13340		13025			500	CADDI	TR	INST2&7, INST1&7#		
13352		13785			510	CADDC	TFM	COMMON&1,41,1011#		
13364		13772			520		В	C‡		
13372				12	530		DORG	*-3‡		
13372	44	13392	13015		540	CADDB	BNF	CADDD, INST1&13#		
13384	49	13352	00000		550		В	CADDC+		
13392					56 0			#-3#		
13392		13785			570	CADDD	TFM	COMMON&1,27,1011‡		
13404	49	13772	00000		580		В	C‡		
13412					590			*-3*		
13412		13480			600	CADDH	BNF	CADDJ&12, INST2&14+		
13424		13468			610		BNF	CADDJ, INST2&13#		
13436		00700			620		TDM	FLAGSW,4#		
13448		13783			630		AM D	OP,5,10+ CADDI+		
13460 13468	49	13340	00000		640 650		B	*-3*		
13468	11	13783	000-5		660	CADDJ	AM	OP,5,10‡		
13480		00700			670	CADDS	TDM	FLAGSW,#		
13492		13328			680		В	CADDI-12#		
13500	- 1/	13320	00000		690			*-3‡		
13500	44	13520	13031		700	CADDK	BNF	CADDL, INST2813+		
13512		13468			710		В	CADDJ‡		
13520					720		DORG	*- 3 +		
13520	15	00700	00004		730	CADDL	TDM	FLAGSW,4‡		
13532		13783			740		AM	OP,5,10‡		
13544	49	13372	00000		750		В	CADDB#		
13552					760			*-3*		
13552		13783			770	CSUB	TFM	OP,AFAD+		
13564			000-C		780		BTM	CODE,,10‡		
13576		13608			790		BNF	CSUBA, INST2&14#		
13588		13032			800		CF	INST2&14#		
13600	49	13292	00000		810		В	CADD&24+ +-3+		
13608	22	13032	00000		820 830	CSUBA	SF	INST2&14#		
136C8 13620		13032			840	COUDA	Sr B	CADD&24#		
13628	77	17676	50000		850			#-3‡		
13628	16	13783	J6329		860	CMULT	TFM	OP.AFMP#		
13640		13660			870		В	CDIVE12#		
13648					880			*-3‡		
13648	16	13783	J6339		890	CDIV	TFM	OP,AFDV+		
13660		13040		12	900		BTM	CODE#		
13672		13740			910		BNF	CMDA, INST1814#		
13684		13752			920		BNF	CMDA&12,INST2&14#		
13696		00700			930		TDM	FLAGSW#		
13708		13372			940	CMDB	BNF	CADDB, INST2&13‡		
13720		13783			950		AM	OP,5,10‡		
13732	49	13340	00000		960		B	CADDI #		
13740	,,	13/0/	12022		970	CHDA		3+ 		
13740		13696			980	CMDA	BNF TDM	CMDB-12, INST2&14#		
13752 13764			00005 00 0 00		990 000		i um B	FLAGSW,5‡ CMDB‡		
13104	77	17100	00000	13	000		U .	GROUT		

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LOCTN	СP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	<u>y</u>
13772				13	010		DORG	*-3 ‡		
13772	26	13024	00000		020	С	TF	INST286#		
13784		14084			030	COMMON		PUT1,PUT1-1+		
13796		13820			040	33	BNF	*824, COMMON&1#		
13808		14104			050		8 T	PUT2, PUT2-1#	•	
13820		10972			060		SM	PUTETB&6,18,10#	·	
13832		17481			070		TF	SYM, ACC+		
13844		09581			080		TFM	CSORN-1, *&20+		
13856		08388			090		В	SMTLU#		
13864					100	 		*-3 ‡		
13864	26	13894	10972	13	110		TF .	*&30,PUTETB&6#		
13876		13894		13	120		AM	*818,6,10		
13888	32	00000	00000	13	130		SF	‡		
13900	12	15128	000-2	13	140		SM	PUTOMH&6,2,10#		
13912	26	13935	15128		150		TF	*&23,PUTCMH&6‡		
13924	26	11631	C0000	13	160		TF	CMM1#		
13936		17511			170		CM	CHI,4,10#		
13948		12462		13	180		8 E	SSC*		
13960		13980			190		BNR	*&20,CHI&2*		
13972	49	11682	00000	13	200		В	S & 12 ‡		
13980					210		DORG	* -3 *		
13980		17513			220		CM	CHI&2,14,10#		
13992		12338			230		BE -	SS3&24#		
14004			000K4		240		CM	OMM1,24,10‡		
14016			01200		250		BE	PUTOMG#		
14028			CCOKM		260		CM	OMM1,-24,10#		
14040			C12C0		270		BE	PUTOMG#		
14052			CCOL3		280		CM	OMM1,33,10#		
14064			01200		290		BE	PUTCMG#		
14076	4.9	11600	00000		300		B Bonč	S,,5 ‡		
14084	·				310	*CUTD		#-3‡ UTINES‡		
14004	1.6	14120	12002		320 330	PUT1	TFM	PUT2&35,INST1#		
14084 14096			J3002 C0000		340	PUIL	В	PUT2612,,5‡		
	49	14130	00000		350			*-3‡		
14104 14104	16	14120	J3018	$\frac{13}{13}$		PUT2	TEM	PUT2&35, INST2#		
14116			14866		370	FUIZ	TR	OUT ,SUBI+		
14128			00000		380		TR	OUT&60#		
14140			CC072		390		BD .	*&56 ,OUT&72*		
14152			00073		400		BD	*&44 ,DUT&73‡		
14164			000J2		410		TFM	PUTX-1,12,10#		
14176			00060		420		TR	\$003TUQ, DUT&60\$		
14188			00000		430		В	PUTX#		
14196					440		DORG			
14196	44	14164	00072		450		BNF	*-32 ,OUT&72‡		
14208			00000		460	**************************************	CF	OUT&73‡		
14220			000J5		470		MM	OUT & 73 , 15	, 10 ‡	
14232			J7471		480		TFM	*835,TUP&1#		
14244			00099	13	490		S	* &23 , 99 		
14256			00000		500		TR	0UT&81#		
14268	26	00047	00071	13			TF	OUT & 47 , OUT & 71 ‡		
14280			14638	13	520		BNF	*&24 ,PUTX&8‡		
14292			00066		530		TF	### ##################################		
14304			C0090		540	and the same of th	BNR	BL2 ,0UT&90‡		
14316	26	00059	CC089	13	550	BLI	TF	### OUT&89 OUT&89		V

LGCTN	СР	P/L	Q	PC	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	Q
LCCTA	CF	- F / L	<u>\</u>			LAULL	13116.13	OT ENAMOS	AND REPARKS	TAUL	
14328	31	00000	00036	13	560		TR	CUT	+0UT&36#		
14340	26	00006	16243	13	570		TF	OUT &6	,L‡		
14352		00006			580		AM	8&TUD	,35‡		
14364		14388			590		BNF	* &24	*PUTX&8		
14376		00006			600		SM	0 3TU 0	, 5	•10#	
14388		00018			610		TF	0UT&18	*CUT&6#		
14400		00018			620		SM	0UT&18	,1	, 10‡	
14412		14629			630		TEM	PUTX-1,36) , LU#		
14424 14432	49	14630	00000		640 650		BORG	PUTX# #-3#			
14432	44	14452	00004		660	EL2	BNF	#=3∓ # 820	,0UT&94#		
14444		14316		$\frac{13}{13}$	670	562	В	BL1#	70014711		
14452	• •	11310	00000		680		_	*-3‡			
14452	16	14629	CCOP2		690		TFM	PUTX-1,72	.10‡		
14464		00042			700		Α	OUT & 42	, L ‡		
14476		00054			710		Δ	OUT & 54	,L‡		
14488	26	00006	00094	13	720		TF	63TU 0	,OUT&94#		-
14500		00011		13	730		TF	0 UT&11	,0UT&84‡		
14512		00035			740		TF	DUT&35	*0UT&89		
14524		14560			750		BNF	* &36	*PUTX&8		
14536		C0042			760		SM	OUT & 42	,5	•10 	
14548		00054			770		SM	OUT&54	,5	, 10‡	
14560		14630			780 790		BNF	PUTX	,0UT&35‡ ,12‡		
14572 14584		00042 00054			800		SM SM	OUT&42 OUT&54	,12+ ,12+		
14596		00024			810		TR	001834 001824	,0UT&36#		
14608		14629			820		TEM	PUTX-1,60			
14620		14630			830		В	PUTX#	.,,		
14630	• •				840						
14630	33	14630	00000	13		PUTX	CF	**			***************************************
14642		14663		13	860		TF	PUTPHI-1,	PUTX-1#		
14654	49	14676	00000		870		E	PUTPHIE12	! ‡		
14664					880			*-1+			
14664		14630			890	PUTPHI		PUTX#			
14676		14742			900		CM		SUFBASE75#		
14688		14810			910		BNL	DUMP#			
14700 14712		14736 00000			920 930		BNF TD	*&36,PUTX	•PHI#	***************************************	
14724		17020			940		TR	PHI, PHIE1			
14736		J6862			950	PUTTD	TD	BUFBAS	,OUT	,2‡	
14748		00000			960		TR	OUT	,OUT&1#	, - ·	
14760		16243			970		AM	L,1#			
14772		14742			980		AM	PUTTD&6,1	.‡		
14784		14663			990		SM	PUTPHI-1,			-
14796		14676			000		8 P	PUTPHIE12	<u> </u>		
14808	42	00000	00000		010		ВВ	*			
1481C					020			#-9#			
14810		14742			030	DUMP	TFM	PUTTD&6,E			
14822			00459		040		BD	*824,SKPF	ルド		
14834			00400		050		TF	LCAD-4=			
14846 14858		14700	16243		060 070		<u> </u>	PUTPHI&36	<u>;</u> ±		
14858		14100	00000		080			*-3 [‡]	, 1		
14866		-0000	-0000		090	SUBI	MM	••27±			
14878			CCOCO		100		Sf	96‡		•	

0											
•	LOCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	27
	14890		-0099			110		Α	99,,27‡		
	14902	16	-0071	-0000	14	120		TFM	71,,27‡		
	14914	22	-0070	-0099	14	130		S	70,99,27‡		
-	14926		1			140		DC	1,0‡	·	
	14928	33	16394	000-0	14	150	BGO -	CF	BRINST&2,,10#		
	14940			16392		160		TR	89,BRINST#		
	14952			16453		170		TR	96, CRAM-4#		
	14964			16249		180	· .	TF	88,LODER‡		
	14976			00000		190	COMGO	CF	84#		
	14988			J7012		200 /		CM	GDER&6 ,IMAGE&75#		
	15000			01300		210		BL	GOER#		
	15012			00459		220		BD.	*&24,SKPPCH+		
	15024			00400		230			I MAGE‡		
	15036			J6937		240		TFM	GDER&6, IMAGE#		
	15048	15	16937	00000		250		TDM	IMAGE+		
-	15059		1			260	·	DC	1,0,**		
	15060			00084		270	GOER	TR	IMAGE ,84 ,2	‡	
	15072	<u> 15</u>	00079	00000		280		TDM	79‡		
	15083		1			290		DC	1,3,**		
	15084			-0015		300	··	AM	+ −18 ,15‡		
	15096	42	00000	00000		310		BB	+		* *
	15098					320		DORG			
	15098			00700		330	PUTOMG		#668,FLAGSW#		
	15110			-0002		340	01170411	AM.	*618,2 ‡		
	15122			17511		350	PUTOMH		CHI+		_
<u> </u>	15134			17511		360		TF	OMM1,CHI+		
	15146			17512		370		TR	CHI-1,CHI&1#		
_	15158	. 49	11670	00000		380		B	S+ +-3+		
	15166	2.2	17511	00000		390					
	15166			00000		400		SF TDM	CHI+ FLAGSW+		
	15178			00000		420		В	PUTOMG&12#		
to wronte	15190 15197	49	15110	00000		430			*-4‡		
			5			440	OP	DS	5,0811#		
	13783 15198	1.4		J6349		460	CEXP	TFM	OP,AFXP#		
	15210			000-0		470	CEAP	BTM	CODE,,10‡		
	15210		3	000-0		475	ACC	DS	3 ,*-2‡	············	
	15222	15	_	00001		480	ACC	TDM	USEDFS844 ,1#		
	15234			060C1		490		TDM	USEDFS&42,1#		
				13032					*624, INST2614+		
	15258			000-5		510		AM	OP,5,10#		
	15270			13031		520		BNF	CEXPA, INST2813#		
	15282			13009		530	· · · · · · · · · · · · · · · · · · ·	TR	TEMP, INST187#	 	
	15294			0-000		540		TEM	INST1814,,8‡		
	15306			13029		550		TF	INST186 , INST2811+		
	15318			-0060		560		TEM	INSTIEIL ,FAC+		
	15330			14083		570		ВТ	PUT1,PUT1-1+		
	15342			15554		580		TR	INST187,TEMP#		
	15354			16391		590		TF	INST1&6,TFFAC+		
	15366			13015		600		BNF.	CEXPB, INST1&13#		
	15378			14083		610		BT	PUT1,PUT1-1#		
	15390			00000		620		В	CEXPA&12‡		
-	15398					630			#-3‡		
	15398	44	15474	13015		640	CEXPA	BNF	CEXPB, INST1&13#		
	15410			13016		650		BNF	CEXPC, INST1&14#	,	
	13710										

CCTN CP P/L C PG N LABEL MNEM OPERANDS AND REMARKS PAGE 28									
15434	LCCIN	ΩĐ	P/I	C	PG	I N	LARFI	MNEM	
15446									
15454 16 13765 000MJ 14 700 CECT TFM COMMONEI, 41, 10114							CEXPU		
15454		49	13/12	00000					
15466		16	13785	CCOMI			CEXPC		
15474							CLAIC		
15474			13112	00000					
15486 31 15554 13018 14 740 TR TEMP, INST2# 15486 31 15554 1301 6444 14 750 TF INST2612* 15510 27 14084 14083 14 760 BT PUT1, PUT1-1# 15510 27 14084 14083 14 760 BT PUT1, PUT1-1# 15534 31 13018 15554 14 780 TR INST2.TEMP# 1554 49 15454 00000 14 780 BCEMPC# 15554 1 1 4 800 DIRG #-3# 15554 1 1 4 800 DIRG #-3# 15554 1 1 4 810 TEMP DS 1* 15569 15 17 13040 000-0 14 830 CFCT BTM CDDE, 10* 15570 17 13040 000-0 14 830 CFCT BTM CDDE, 10* 15594 31 17508 17510 14 850 TR CHI-3, CHI-1# 15594 31 17508 17510 14 850 TR CHI-3, CHI-1# 15608 44 15754 13031 14 870 BMF CFCTA, INST2613* 15618 44 15754 13031 14 870 BMF CFCTA, INST2613* 15642 15 00700 00002 14 890 TDM FLAGSW, 2* 15646 11 13002 16432 14 910 TR INST1, RYINST1* 15666 31 13002 16432 14 910 TR INST1, RYINST1* 15690 49 13784 00000 14 930 B CDMMON* 15690 49 13784 00000 14 930 B CDMMON* 15698 44 15822 13031 14 960 TFM COMMON* COMMON* 15722 44 15678 13016 14 970 BMF CFCTA, INST2613* 15704 49 15678 00000 14 930 B CDMMON* 15754 49 15678 00000 15 000 15754 49 15678 00000 15 000 15754 49 15678 00000 15 000 15754 49 15678 00000 15 000 15754 49 15678 00000 15 000 15822 16 13785 00000 15 100 DIGG *-3* 15824 16 13785 00000 15 100 DIGG *-3* 15825 17 1300 15 000 TFM CDMMON* 15826 15 00700 00002 15 000 TFM CDMMON* 15826 15 13000 13025 15 040 TR INST167+ 15826 16 15957 J6416 15 000 CFCT TFM CDMMON* 15826 16 15957 J6416 15 100 TFM TMGSS11, FLOAT2* 15826 16 15957 J6416 15 100 TFM TMGSS11, FLOAT2* 15826 16 15957 J6416 15 100 TFM TMGSS11, FLOAT2* 15826 16 15957 J6416 15 100 TFM TMGSS11, FLOAT2* 15826 16 15957 J6416 15 100 TFM T		44	15434	13016			CEXPB		
15498 26 13030 16444 14 750 TF									
15522 27 14104 14103 14 770					14	750			INST2&12,RVINST&12+
15534 31 13018 15554 14 780 TR INST2,TEMP#	15510	27	14084	14083	14	760		ВТ	PUT1,PUT1-1#
15546									
15554									
15554		49	15454	00000					
15569			_						· · · · · · · · · · · · · · · · · · ·
15570 17 13040 C00-0 14 830 CFCT 8TM CODE,;10+ 15582 26 13024 13013 14 840 TF INST266,INST1611+ 15594 31 17508 17510 14 850 TR CH1-3,CH1-1+ 15606 44 15698 13032 14 860 BMF CFCTA,INST2614+ 15610 44 15754 13031 14 870 BMF CFCTA,INST2613+ 15630 44 15654 13016 14 880 BMF CFCTB,INST2613+ 15630 44 15654 13016 14 880 BMF E24,INST1814+ 15642 15 00700 00002 14 890 TDM FLAGSW,2+ 15654 16 13785 000KP 14 900 TFM COMMON61,77,1011+ 15666 31 13002 16432 14 910 TR INST1,RVINST+ 15669 13 13002 16432 14 910 TR INST2611,FAC+ 15690 49 13784 00000 14 930 B COMMON+ 15698 44 15822 13031 14 950 CFCTA 8MF CFCTC,INST2613+ 15710 16 13785 000N 14 960 TFM COMMON61,41,1011+ 15734 15 00700 00002 14 980 TDM FLAGSW,2+ 15734 15 00700 00002 14 980 TDM FLAGSW,2+ 15754 44 15778 13016 14 970 BMF CFCTA-20,INST1814+ 15734 15 00700 00002 15 020 B CFCTA 8MF CFCTA-20+ 15778 26 13008 16391 15 030 TF INST186,FFAC+ 15778 26 13008 16391 15 030 TF INST186,FFAC+ 15780 27 14084 14083 15 050 BT INST187,INST267+ 15824 44 13784 13016 15 000 TM FLAGSW,2+ 15825 16 13785 C00MJ 15 080 CFCTC TFM COMMON61,41,1011+ 15834 44 13784 13016 15 000 TM FLAGSW,2+ 15886 16 15957 J6400 15 130 FIX TFM COMMON61,41,1011+ 15886 16 15957 J6400 15 130 FIX TFM COMMON61,41,1011+ 15886 16 15957 J6400 15 130 FIX TFM TWAGS&11,FLOAT2+ 15886 16 15957 J6400 15 140 B E204 15886 16 15957 J6400 15 180 CFCTC TFM SECOLUTE 15886 16 15957 J6400 15 180 CFCTC TFM SECOLUTE 15886 16 15957 J6400 15 180 CFCTC TFM SECOLUTE 15886 16 15957 J6400 15 180 CFCTC TFM SECOLUTE 15886 16 15957 J6400 15 180 CFCTC TFM SECOLUTE 15886 16 15957 J6400 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TFM SECOLUTE 15910 33 00096 00000 15 180 CFCTC TF			1				TEMP		
15582 26 13024 13013 14 840				000 0			CECT		
15594 31 17508 17510 14 850							CFCI		
15606									and the second s
15618									
15630									
15642 15 00700 00002 14 890 TDM FLAGSN,2‡ 15666 31 13002 16432 14 910 TR							······························		
15654 16 13785 000KP 14 900 TFM COMMONG1,27,1011* 15668 31 13002 16432 14 910 TR INST1,RVINST* 15678 16 13029 -0060 14 920 TFM INST2&11,FAC* 15690 49 13784 00000 14 930 B COMMON* 15698 14 940 DORG *-3* 15698 44 15822 13031 14 950 CFCTA BNF CFCTC,INST2&13* 15710 16 13785 000MJ 14 960 TFM COMMONG1,41,1011* 15722 44 15678 13016 14 970 BNF CFCTA-20,INST1&14* 15734 15 00700 00002 14 980 TDM FLAGSW,2* 15746 49 15678 00000 14 990 B CFCTA-20* 15754 44 15778 13016 15 010 CFCTB BNF *624,INST1&14* 15766 15 00700 00002 15 020 TDM FLAGSW,2* 15778 26 13008 16391 15 030 TF INST1&6,IFFAC* 15790 31 13009 13025 15 040 TR INST1&6,IFFAC* 15814 49 15654 0000 15 040 TR INST1&6,IFFAC* 15822 16 13785 000MJ 15 030 TF INST1&7,INST2&7* 15824 14 13784 13016 15 090 BRF COMMONSI,41,1011* 15834 44 13784 13016 15 090 BRF COMMONSI,41,1011* 15834 44 13784 13016 15 090 BNF COMMONSI,41,1011* 15834 44 13784 13016 15 090 BNF COMMONSI,8TI&14* 15865 15 120 DORG *-3* 15866 16 15957 J6400 15 110 B COMMONS 1,5TI&14* 15878 49 15888 00000 15 140 B COMMONS 1,5TI&14* 15886 16 15957 J6406 15 130 FIX TFM THAGS&11,FIX2* 15886 16 15957 J6416 15 160 FLOAT TFM THAGS&11,FIX2* 15898 16 15991 000K7 15 170 TFM SSBCD&13,27,10* 15934 31 13009 13025 15 200 TR INST1&7,INST2&7*									
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15690							·		
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15814 49 15654 0C000 15 060 B CFCTE84‡ 15822 16 13785 0C0MJ 15 080 CFCTC TFM COMMON&1,41,1011‡ 15834 44 13784 13016 15 090 BNF COMMON,1NST1&14‡ 15846 15 00700 0C002 15 100 TDM FLAGSW,2‡ 15858 49 13784 0C000 15 110 B COMMON*‡ 15865 15 120 DORG *-4‡ 15878 49 15898 0C000 15 140 B *&20† 15886 16 15957 J6400 15 130 FIX TFM TWAGS&11,FIX2‡ 15886 16 15957 J6416 15 160 FLOAT TFM TWAGS&11,FLOAT2‡ 15888 16 15957 J6416 15 160 FLOAT TFM TWAGS&11,FLOAT2‡ 15898 16 15991 0C0K7 15 170 TFM SSBCD&13,27,10‡ 15910 33 0C696 0C000 15 180 CF EQSW‡ 15922 31 15554 13009 15 190 FOF TR TEMP,INST1&7‡									
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15922 31 15554 13009 15 190 FOF TR TEMP, INST187‡ 15934 31 13009 13025 15 200 TR INST187, INST287‡							· · · · · · · · · · · · · · · · · · ·		
15934 31 13009 13025 15 200 TR INST1&7, INST2&7‡									
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₩15946 31 13018 16400 15 210 TWAGS TK TNSTZ+FTXZ+							THERMAN		
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<u> </u>	LCCTN		P/L	Q 22015	PG		LABEL		OPERANDS *&20,INST	AND REMARKS	PAGE	29	
	15958			13015		220		BNF	•	1613#			
	15970	49	15990	00000		230 <u>.</u> 240		B DURG	* 820 *				
	15978	2.2	14004	14002			2207	BT	PUT1, PUT1	_1+			
	15978			14083		250 260	SSBCD	NOP	PUT2, PUT2				
	15990			14103			1						
	16002			13016		270 280		BNF	#836, INST				
	16.014			16432				TR	INST2, RVI				
	16026			14103		290		BT	PUT2, PUT2				
	16038			15554		300		TR	INST187,1				
	16050			13009		305		TR.	TRAREC&1	+INST187#			
	16062			13013		310		TF	INST186	+11311811+		*	
	16074			-0060		320		TFM	INST1811	,FAC+			
	16086			OOCM 1		330		TFM	SSBCD&13	,41	, 10‡		
	16098			00696		350	TRACE	NOP	*&20	,EQSW#			
	16110	.49	16138	CC000		360	1	В	ZOT#				
	16118					370			*-3*		· · · · · · · · · · · · · · · · · · ·		
	16118			16182		380		TR	INST1	,TRAREC-6#			
	1613C	49	16150	00000		390		В	ZOT&12#				
	16138					400		DORG	*-3‡				
	16138	32	14638	00000		410	ZOT	SF	‡83XTU 9			7 E 14	
	16150	27	14084	14083	1.5	420		8T	PUT1	,PUT1-1#			
	16162	33	14638	00000	15	430		CF	#83XTU9		<u> </u>		
	16174	49	06724	00000	15	450		В	TESTDO#		7		
	16182				15	460		DORG	*- 3 				
	16183		2			470		DC	2,17#	;			
	16188		00005	-2586	15	480	TRAREC	DSA	TRACX#				
	16193		5			490		DC	5,-90500	F			
	16197		4			500		DC	4, 6+		,	· · · · · · · · · · · · · · · · · · ·	
	16198	16	13783	J6233		510	FXEXP	TFM	OP, + &35+		-		
	16210			00000		520		TDM	FXORFL#				
	16222			-2000		530		В	CEXPE48,	-AXI,7#			
	16238			-1964		540		DSA	FAXIN#				
	16243		5			550	L	DS	5‡			•	
	16244		ĺ			560	-	DC	1, a +				
	16249		5			570	LODER	DS	5‡				
	16250		1			580	LODEN	DC	1,0#				
	02452					590	STOPSR		1,01	,2452#			
						600	ENDSR	DS		,2562#	100		
	02562 02586					610	TRACX	DS		,2586‡			
*						620	FAXI	DS		,2000#			
***************************************	02000					630	FAXIN	DS		,1964#	```		
	01964					the second second second				,3914			AST≢
	03914			·		640	COMPLT		·		<u>, , , , , , , , , , , , , , , , , , , </u>	71	ASIT
	02834					650	RATY	DS		,2834 +			
	02798		J			660	RACD	DS		•2798 			
	02882					670	WACD	DS		,2882#			
	02918					680	WATYSC			,2918‡			ATV
	02954					690	WATY	DS		,2954	. •		ATYE
	C3938					700	SWC	DS	· · · · · · · · · · · · · · · · · · ·	,3938	<u> </u>	• 1/1	UMBI
	02726					710	LTPAR	CS		,2726‡			
	03574		····			720	RTPAR	DS.		,3574‡	·		
	03690					730	HTYPE	DS		,3690‡			
	03654	·				740	XTYPE	<u>DS</u>	·	,3654#			
	03298					75 C	SLASH	DS		,3298‡			
<u> </u>	00696					770	EQSW	DS		,BA&2#			
	00697					780	FSTSW	DS		,BA&3‡			
					15	790	SBSWCH	DS	`	,BA&4#			V
O	86900												
C_	88630										65		

·			Andrew Control of the								
) 	LOCTN	CP	P/L	C	PG LN	LABEL	MNEM	OPERANOS	AND REMARKS	S PAGE	30
	00699				15 800	DMSWCH	DS		,BA&5#		
	00700				15 810	FLAGSW			,BA&6+		
	00701				15 82C	DOSWCH			,BA&7#		
	00702				15 830	IFSWCH	DS		+83A8+		
	16253		6		15 860	FRMSCT	DAC	6.FORMAT#	:		
	16264		1		15 870	USEDFS	DC	1,0#			
	16313		49	w	15 880		DC	49,0#			
	16314		1		15 890		DC	1,0#			
	02298				15 900	FIX1	DS ·		,2298‡		
	02392				15 910	FLCAT1	DS		,2392‡		
	00060				15 920	FAC	DS		•60 		
	00480		_		15 930	FAD	DS	r	,480‡		
	16319 16324		<u>5</u>		15 940 15 950	AFAD AFSB	DC DC	5	,480# ,420#		
	16329		5 5		15 960	AFMP	DC	5	,1128‡		
	16334		5		15 970	AFEP	DC	5	,1128‡		
	16339		5 5		15 980	AFDV	DC	5	,1382‡		
	16344		5		15 990	AFCVR	DC	5	,1346‡		
	16349		5		16 000	AFXP	DC	5	,2188‡		
	16354		5		16 010	FAXBN	DC	5	,2152‡		
	16359		5		16 020	FXA	DC	5	,1614‡		
	16364		5		16 030	FXS	DC	5	, 1590‡		
	16369		5		16 040	FXM	DC	5	,1644#		
	16374		5		16 050		DC	5	,1644‡		
١	16379		5		16 060	FXD	DC	5	,1722#		
	16384		5		16 070	FXDR	DC	5	,1686‡		
	01816			·	16 080	RVSGN	DS	0	,1816#		
	16391		7		16 090	TFFAC	DC	7	,2600060‡		
	16392	M9	00000	00000	16 110	BRINST	В	,,0‡			
	16399		1		16 120		DC	1,0,*-4			
	16400		~		16 130			#-3‡			
	16400	K 7	02298	02297	16 140	FIX2	ВТ	FIX1,FIX1	-1,0#		
	16415		4		16 150		CC	4,0#		·	
	16416	K7	02392	02391	16 160	FLCAT2			OAT1-1,0#		
	16431		4		16 170		DC	4,0#			· · · · · · · · · · · · · · · · · · ·
	16432	K7		C1815	16 180	RVINST	BT	RVSGN, RVS	GN-1,0#		
	16447		4	,	16 190		DC	4,0#			
	16456		9		16 200	CDAN	DC.	9,0+			
	16457	2 /	KMO	00500	16 210 16 220	ZERCR1	DC RNCD	1,0+		,2345‡	
	16458	30		00500	16 220	ZEKCKI		1	9	a,*‡	
	16469 16470	26	C0C47	00054	16 240		DC TF	47	, 54‡	wy-T	
	16482		00054		16 250		TEM	54	,1‡		
	16494		00054		16 260		AM	54 ‡	y ı Ŧ		
	16506		-0139		16 200		TR	139	,10	, 27‡	
	16518		00012		16 280		BNR	12	,240#	7217	
	16530		00012		16 290		В	242‡	,2101		
	16540	7,	JULTL		16 300			*-1*			
	16540	ı,ın	-0035	-0100	16 310	ZERCR2		35	,100	,0127#	
	16552		00090		16 320		TF	90	,299‡		
	16564		00060		16 330		BTM	60	,140	, 9‡	
	16617		42		16 340		DC		0000005004	9000000123	45678917
	16618	15	240	00000	16 350	LROUT	TOM	240	,	,23‡	
	16629		1		16 360		DC	1,3,**			
!	16630	36	08000	00500	16 370		RNCD				
		<u> </u>									

LCCTN	CP P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAG	E 31	
16642	49 00104	+ 00000	16	380		В	104‡				
16650			16	390		DORG	* -3 ‡				
16650	44 00092	2 00161	16	400		BNF	92	,161‡		***	
16662	49 00104	+ 00000	16	410		В	104#				
16674	26 00074	00164	16	420	e.	TF	74	,164‡			
16686	26 00000	00174	16	430		TF		,174#			- '
16698	31 -0160	00175	16	440	LROUT2	TR	160	,175	, 2‡		
16710	45 00056	5 00160	16	450		BNR	56	,160‡		•	
16722	36 00160	00500	16	460		RNCD	160#	- <u> </u>			
16734	44 00032	2 00160	16	470		BNF	32,160‡				-
16746	26 00146	5 00164	16	480		TF	146,164#				
16758	31 00000	00165	16	490		TR	, 165#				
16770	49 00104	4 00000	16	500		В	104,60000	7,7			
16778			16	510		DORG	*-3 				
16779	20)	16	520	EOC	DAC	20, PROCES	SSING COMPLE	TE9#	* * * * * * * * * * * * * * * * * * *	
16819		5	16	530	LSTM	DAC	6	,START@#			
16831		3	16	540	OVERL	DAC	8, OVERLA	APa+			
OCOCC			16	550	CUT	DS		•0‡			
16851	. (5	16	570	MEMCAP	DC	6,199993	k			
16856		5		580	FCTEND	DS	5#				
16861		5	16	590	LOAD	DS	5‡			* * * 1	
16862		l		600	BUFBAS		1#				
16936	74	4		610		DS	74#				
16937		1		620	IMAGE	DS	1#				
17016	79	9		630		DS	79‡				41
17020		4		640	PHI	DS	4#				
17480	460	0		650		DS	460#			*	
17481		1		660	SYM	DS	1#				
17491	10	D.	16	670	COMP	DS	10#				
17493		1		672		DAS	1#			* .*	
17509	10	6	16	680		DC	16	,507070707	00000+		
17511	8	0	16	690	CHI	DAS	*0				
17670	26 1796	5 16856	16	700	PSTAB	TF	FINE11	,FCTEND+			
17682	11 0853			710		AM	SMCNT	,1	,10#		
17694	16 1782			720		TFM	ADE11	,SMCNT#			
17706	46 0798			725		BC2	EXIT+				
17718	43 0798		16	727		BD	EXIT	,SKPPCH#			
17730	26 1774			730		TF	ADR&6	,SMTLU1&11	‡		
17742	26 0000		16	740	ADR	TF		,BLKST#		· · · · · · · · · · · · · · · · · · ·	
17754	26 1791			750		TF.	CKF&11	, =-6+			
17766	11 1791			760		AM	CKF&11	, 2	,10‡		
17778	16 1777			770		TFM	ADR&32	,6	, 10‡		
17790	26 1782			780		TF.	*&30	,SMTLU1&11			
17802	12 1782			790		SM	*&18	, 4	,10#		
17814	26 0000			800	AD	TF	·	,SMCNT+			
17826	12 1782			810		SM	* -6	, 5	,10‡	· · · · · · · · · · · · · · · · · · ·	
17838	26 1785			820		TF	*13*	,* -18 			
1785C	38 0000			830		WNCD					
17862				840		В	* 844 				
17870				850			* -3 				
17870	11 1791	7 00000		860		AM	CKF&11	,10	,10#		
17882	12 1777			870		SM	ADR&32	,1	,10‡		
17894				880		BNH	* &36 	-			
17906	44 1787			890	CKF	BNF	*-36‡			·	
				900		TFM	AD&11	,BLKST-6#			-
17918	16 1782	5 1/484	חו	7111		1 1-14	AUGII	*DEV21_0+			

17942 11 08735 COPPO	LCCIN	CP	P/L	<u> </u>	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	32
17942 11 08735 COPPO	17930	11	08455	000P0	16	910		ΔM	SMTLU1811	,70	,10#	
17954 14 08455 -0000 16 930 FIN CM SMILUIEII* 17968 47 17718 01300 16 940 BN ADR-24* 17978 49 07998 -C000 16 950 B EXIT , ,7* 17986 1995 10 16 970 BLKST DNB 10* 17996 11 18023 C00K0 16 980 LAST AM *£27,20,10* 18018 15 00000 00000 16 990 TDM * 18018 10 10 17 000 DC 1.9** 18018 12 17 17 000 DC 1.9** 18020 31 J9999 18017 17 010 TR 19999,*-3,2* 18022 45 17996 60000 17 020 BNR LAST* 18024 45 17996 60000 17 020 BNR LAST* 18056 26 16856 18850 17 040 TF FCTEND,MEMCAP-1* 18068 27 18453 00500 17 050 RACD CCD+ 18068 37 18453 00500 17 050 TD NO-2,CCD2* 18012 25 18432 18455 17 060 TD NO-2,CCD2* 18104 25 18432 18455 17 080 TD NO-1,CCD864* 18116 25 18435 18455 17 090 TD NO-1,CCD864* 18116 25 18435 18456 17 10 0 TRY TR CCD-1,CD87* 18116 45 18452 18460 17 110 CM NO+ 18128 31 18452 10 11 10 TO TRY TR CCD-1,CD87* 18126 44 5 18188 14461 17 130 BNR 824,CCD8* 18164 45 18188 14461 17 130 BNR 824,CCD8* 18164 67 18453 00500 17 150 TF CCC64,CD86* 18166 37 18453 00500 17 140 RACD CCD* 18166 37 18453 00500 17 150 TF CCC66,CD86* 18128 31 18452 18460 17 100 TF TR CCD-1,CD87* 18129 41 18452 18460 17 100 TF TR CCC61,CD87* 18129 42 18450 18656 17 100 TF CCC66,CD86* 18128 31 18452 18459 17 160 TF CCC66,CD86* 18128 31 18452 18459 17 160 TF CCC66,CD86* 18128 31 18453 00500 17 150 TF CCC66,CD86* 18129 42 18450 18614 17 220 BD *FTEND(),100* 18248 16 18223 36656 17 170 TF CCC66,CD86* 18224 26 18030 18458 17 240 TF *£18,FCTEND* 18248 16 18283 3600-2 17 210 AM *£23,C,100* 18248 16 18283 3600-2 17 210 AM *£23,C,100* 18248 16 18283 3600-2 17 210 TF *CCC68* 18249 41 18360 C0000 17 200 BD *FT *£18,FCTEND* 18248 16 18283 1860 18614 17 220 BD *FTEND(),100* 18248 16 18283 1860 18614 17 220 BD *FTEND(),100* 18248 16 18283 1860 18614 17 220 BD *FTEND(),100* 18248 16 18283 1860 18614 17 280 BD *FTEND(),100* 18248 16 18283 1860 18614 17 280 BD *FTEND(),100* 18248 17 1875 1	 											
17966							FIN	CM				
1797E								BN	ADR-24#			
17995	17978	49	07988	-0000	16	950		В	EXIT	•	,7‡	
17996					16	960		DURG	#-3#			. `
18008 15 00000 00000 16 990 TDM # 1 17 000 DC 1, # #	17995		10		16	970	BLKST	DNB				
18018	17996	11	18023	CCOKO	16	980	LAST	AM	*827,20,1	0#		
18020 31 J9999 18017 17 010		15	00000	00000	16	990						
18032			_						• •			
18044 26 18950 18026 17 030										,2‡		
18056 26 16856 16850 17 040 TF FCTEND, MEMCAP-1*												
1806E 37 18453 00500 17 050												
1										MCAP-1#		
18092 25												
1												
18116 25 18435 18459 17 090 TD												
18128 31 18452 18460 17 100 TRY TR CCD-1,CCDE7# 1614C 14 18435 - JOCO 17 110 CM NG# 18152 46 18364 01200 17 120 BE CHIGO# 18164 45 18188 18461 17 130 BNR *824,CCD88# 18164 37 18453 00500 17 140 RACD CCD# 18188 16 18623 00-00 17 150 TFM CCC88, 9# 1820C 26 18621 18459 17 160 TF CCC86,CCD&6# 18212 26 18230 18856 17 170 TF *818,FCTEND# 18224 26 00000 18623 17 180 TF ,CCC88# 18236 12 16856 000J0 17 190 SM FCTEND,10,10# 18248 16 18283 38612 17 200 TFM *835,CCC-3# 1826C 11 18283 000-2 17 210 AM *823,210# 18272 43 18260 18614 17 220 BD *-12,CCC-1# 18284 26 18302 18283 17 230 TF *818,#-1# 18396 26 18302 18283 17 250 TF *818,#-1# 18302 26 00000 18438 17 240 TR ,FRECK# 18302 26 1826 16856 17 250 TF *618,FCTEND# 18320 26 00000 18623 17 260 TF ,CCC88# 18332 12 16856 000J0 17 270 SM FCTEND,10,10# 18344 12 18435 COC0-1 17 280 SM NO,1,10# 18364 18 18375 17 300 DORG *-3# 18376 11 18370 00-2 17 330 AM *6-2,10# 18388 14 18370 07600 17 360 TM CHIGO# 18431 17 370 DC 1,3,** 18423 17 370 DC 1,3,** 18436 1 17 410 DS 1# 18436 1 17 410 DS 1# 18435 4 17 440 CCD DAC 4,4AAA# 18453 18453 4 17 440 CCD DAC 4,4AAA# 18453 1845												
1814C 14 18435 -0000 17 110												
18152							TRY			£7 ‡		
18164 45 18188 18461 17 130												
18176 37 18453 00500 17 140												
1818										8‡		
18200 26 18621 18459 17 160 TF CCC66,CCD66+ 18212 26 18230 16856 17 170 TF **R18,FCTEND+ 18224 26 00000 18623 17 180 TF ,CCC68+ 18236 12 16856 000J0 17 190 SM FCTEND,10,10+ 18248 16 18283 J8612 17 200 TFM **835,CCC-3+ 18260 11 18283 000-2 17 210 AM **823,2,10+ 18272 43 18260 18614 17 220 BD **-12,CCC-1+ 18284 26 18302 18283 17 230 TF **818,*-1+ 18296 31 0C000 18438 17 240 TR ,FRECK+ 18308 26 18326 16856 17 250 TF **818,*-CTEND+ 18302 26 00000 18623 17 260 TF ,CCC68+ 18332 12 16856 000J0 17 270 SM FCTEND,10,10+ 18344 12 18435 CCO-1 17 280 SM NO,1,10+ 18356 49 18128 C0000 17 290 B TRY+ 18364 16 J7511 CCO-0 17 310 CHIGO TFM CHI,,210+ 18375 1 1 7 300 DCC 1,0,**+ 18388 14 18370 J7670 17 340 CM **-6,2,10+ 18388 14 18370 J7670 17 340 CM **-18,210+ 18400 47 18364 01300 17 350 BL CHIGO+ 18412 15 CCC79 CCCC0 17 380 B CHIGO+ 18431 17 390 DORG **-4+ 18436 1 17 440 CCD DAC 4,AAAAA+ 18438 46 00000 00000 17 420 FRECK BI + 18438 46 00000 00000 17 420 FRECK BI + 18438 46 00000 00000 17 420 FRECK BI + 18438 46 00000 00000 17 420 FRECK BI + 18438 46 00000 00000 17 420 FRECK BI + 18453 4 17 440 CCD DAC 4,AAAAA+												
18212 26 18230 16856 17 170												
18224 26 00000 18623 17 180												
18236 12 16856 000JO 17 190 SM FCTEND, 10, 10 18248 16 18283 J8612 17 200 TFM *635, CCC-3 18260 11 18283 000-2 17 210 AM *823, 2, 10 18272 43 18260 18614 17 220 BD #-12, CCC-1 18284 26 18302 18283 17 230 TF *618, #-1 18296 31 00000 18438 17 240 TR FRECK 18308 26 18326 16856 17 250 TF *618, FCTEND 18308 26 18326 16856 17 250 TF *618, FCTEND 18320 26 00000 18623 17 260 TF *CCC68 18332 12 16856 000JO 17 270 SM FCTEND, 10, 10										ND‡		
18248 16 18283 J8612 17 200 TFM *&35,CCC-3‡ 18260 11 18283 COU-2 17 210 AM *&223,210‡ 18272 43 18260 18614 17 220 BD *=12,CCC-1‡ 18284 26 18302 18283 17 230 TF *&183,*=1‡ 18296 31 0C000 18438 17 240 TR ,FRECK‡ 18308 26 18326 16856 17 250 TF *&18,FCTEND‡ 18320 26 00000 18623 17 260 TF *&18,FCTEND‡ 18332 12 16856 000J0 17 27C SM FCTEND,10,10‡ 18332 12 16856 000J0 17 27C SM FCTEND,10,10‡ 18344 12 18435 CCO-1 17 280 SM NO,1,10‡ 18356 49 18128 CCOC0 17 290 B TRY‡ 18364 16 J7511 CCO-0 17 310 CHIGO TFM CHI,,210‡ 18375 1 17 320 DC 1,@,**‡ 18376 11 18370 COO-2 17 330 AM *-6,2,10‡ 18388 14 18370 J7670 17 340 CM *=18 ,PSTAB‡ 18400 47 18364 01300 17 350 BL CHIGO+ 18412 15 CCO79 CCOC0 17 360 TDM OUT&79‡ 18423 1 17 370 DC 1,@,**‡ 18424 49 08164 CCOO0 17 380 B MODN7† 18431 17 390 DORG *-4‡ 18436 1 17 400 NO DC 5,0‡ 18436 1 17 410 DS 1‡ 18438 46 00000 00000 17 400 FRECK BI ‡ 18455 4 17 440 CCD DAC 4,AAAA‡										•		
18260												
18272 43 18260 18614 17 220 BD #-12,CCC-1‡ 18284 26 18302 18283 17 230 TF *618,*-1‡ 18296 31 0C000 18438 17 240 TR ,FRECK‡ 18308 26 18326 16856 17 250 TF *618,FCTEND‡ 18320 26 00000 18623 17 260 TF ,CCC&8‡ 18332 12 16856 000J0 17 270 SM FCTEND,10,10‡ 18344 12 18435 CCC-1 17 28C SM NO,1,10‡ 18356 49 18128 COCCO 17 290 B TRY‡ 18364 16 J7511 CCC-0 17 310 CHIGO TFM CHI,,210‡ 18375 1 17 320 DC 1,ā,** 18376 11 18370 COC-2 17 330 AM *-6,2,10‡ 18388 14 18370 J7670 17 340 CM *-18 ,PSTAB‡ 18400 47 18364 01300 17 350 BL CHIGO‡ 18412 15 0CO79 0COCO 17 360 TDM DUT&79‡ 18423 1 17 370 DC 1,ā,** 18424 49 08164 COCO 17 380 B MOON7‡ 18431 17 390 DORG *-4‡ 18435 5 17 400 NO DC 5,0‡ 18436 1 17 410 DS 1‡ 18438 46 00000 0COCO 17 420 FRECK BI ‡ 18438 46 00000 0COCO 17 420 FRECK BI ‡ 18453 4 17 440 CCD DAC 4,AAAA‡												
18284 26												
18296 31 0C000 18438 17 240 TR ,FRECK‡ 18308 26 18326 16856 17 250 TF *&18,FCTEND‡ 18320 26 00000 18623 17 260 TF ,CCC&8‡ 18332 12 16856 000J0 17 270 SM FCTEND,10,10‡ 18344 12 18435 0C0-1 17 280 SM NO,1,10‡ 18356 49 18128 00000 17 290 B TRY‡ 18364 17 300 DURG *-3‡ 18364 16 J7511 000-0 17 310 CHIGO TFM CHI,,210‡ 18375 1 17 320 DC 1,0,** 18388 14 18370 000-2 17 330 AM *-6,2,10‡ 18388 14 18370 J7670 17 340 CM *-18 ,PSTAB‡ 18400 47 18364 01300 17 350 BL CHIGO‡ 18412 15 00079 00000 17 360 TDM DUT&79‡ 18423 1 17 370 DC 1,0,**‡ 18424 49 08164 00000 17 380 B MOONT‡ 18431 17 390 DORG *-4‡ 18435 5 17 400 NO DC 5,0‡ 18436 1 17 410 DS 1‡ 18438 46 00000 00000 17 420 FRECK BI ‡ 18450 1 17 440 CCD DAC 4,AAAA‡												
18308 26 18326 16856 17 250 TF *£18,FCTEND‡ 18320 26 00000 18623 17 260 TF ,CCC&8‡ 18332 12 16856 000J0 17 270 SM FCTEND,10,10‡ 18344 12 18435 CCO-1 17 280 SM NC,1,10‡ 18356 49 18128 C0000 17 290 B TRY‡ 18364 16 J7511 CCO-0 17 310 CHIGO TFM CHI,,210‡ 18375 1 17 320 DC 1,3,*‡ 18376 11 18370 COO-2 17 330 AM *-6,2,10‡ 18388 14 18370 J7670 17 340 CM *-18 ,PSTAB‡ 18400 47 18364 01300 17 350 BL CHIGO‡ 18412 15 CO79 OCGC 17 360 TDM DUT&79‡ 18423 1 17												
18320 26 00000 18623 17 260										ND 4		
18332 12 16856 000J0 17 270 SM FCTEND,10,10 + 18344 12 18435 CCO-1 17 280 SM NC,1,10 + 18356 49 18128 COCCO 17 290 B TRY + 18364 17 300 DCRG *-3 + 18364 16 J7511 CCO-0 17 310 CHIGO TFM CHI,,210 + 18375 1 T7 320 DC 1, 2, ** + 18376 11 18370 COC-2 17 330 AM *-6,2,10 + 18388 14 18370 J7670 17 340 CM *-18 ,PSTAB + 18400 47 18364 01300 17 350 BL CHIGO + 18412 15 CCO79 0COC 17 360 TDM DUT&79 + 18423 1 T7 370 DC 1, 2, ** + 18424 49 C8164 CCOCO 17 380 B MCONT + 18431 T7 390 DCRG *-4 + 18435 5 T7 400 NO DC 5, 0 + 18436 1 T7 410 DS 1 + 18438 46 CCCC TA CCCCC TA CCCC TA CCCC TA CCCCC TA CCCCCC TA CCCCC TA CCCCCC TA CCCCCCC TA CCCCCC TA CCCCCC TA CCCCCC TA CCCCCCC TA CCCCCCCC										NUŦ		····
18344 12 18435 0CO-1 17 280 SM NO,1,10‡ 18356 49 18128 0COCO 17 290 B TRY‡ 18364 16 J7511 0CO-0 17 310 CHIGO TFM CHI,,210‡ 18375 1 17 320 DC 1,0,** 18376 11 18370 0CO-2 17 330 AM *-6,2,10‡ 18388 14 18370 J7670 17 340 CM *-18 ,PSTAB‡ 18400 47 18364 01300 17 350 BL CHIGO‡ 18412 15 0CO79 0COCO 17 360 TDM DUT&79‡ 18423 1 17 370 DC 1,0,*‡ 18424 49 08164 0COCO 17 360 B MOON7‡ 18431 DORG *-4‡ 18435 5 17 400 NO DC 5,0‡ 18436 1 17 410 DS 1‡ 18438 46 0COCO 0COCO 17 420 FRECK BI ‡ 18438 46 0COCO 0COCO 17 440 CCD DAC 4,AAAA‡										104		
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16800	AD	15720									
16740	ADR			16870	16940						
15940	AFAD	12440	12770								
15980	AFDV	12890									***
15990	AFDVR										
15960	AFMP	12860									
15950	AFSE			,							
16000	AFXP	14460									
10830	ASCAN		01150	03940	· · · · · · · · · · · · · · · · · · ·						***************************************
00854	AVOID	01050							•		
00310	BA		00290	00330	15770	15780	15790	15800	15810	15820	15830
00060	BEGIN			00240							
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14150	BGU			02200	02200	UDOOU	υσοου				
1697C	BLKST	16740		01000	01010						
0120C	BLNK1		61016	01020	01040						
01030	BLNK2	C1210									
13550	BL1	13670									
13660	BL2	13540									
00390	BRC			C2330							
13020	С	12520	12580	14440	14680	14710					
12446	CADD	11740	12810	12840							
12540	CADCB	12490	12750	12940							
12510	CADDC	12550									
12570	CADDD	12540									
12600	CADDH	12460									
12500	CADDI		12680	12960							
12660	CADDJ			. 12710							
12700	CADDK	12470	12010	. 12/10							
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12730	CADDL	12700	171/0	17100	17200	17220	172/0				
1767C	<u> </u>	17150	17100	17180 17070	17000	17000	17100	17100	17120	17140	17160
17440	CCD			17070	17080	11090	17100	17100	11150	11140	1/100
12890	CDIV		12870								
14460	CEXP		15530								
14640	CEXPA		14620								
14730	CEXPB	14600	14640								
14700	CEXPC	14650	14790		~,,						
14670	CEXPD	14730									
1483C	CFCT	11700	15060								
14950	CFCTA	14860	14970	14990					-		
15010	CFCTB	14870									· ·
15080	CFCTC	14950		,							
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10090	CP.1	00330	00100	00210	00520	00531	00550	00570	00590	00610	00780
		00339	00300	01200	01200	01240	01270	01200	01210	01330	01226
		01270	01000	01/20	01770	01440	01490	01290	01510	01550	01574
				01420							
		01591	01595	01595	01900	01630	01630	01640	01000	01000	
		01700	01740	01750	01750	01800	0.0810	01810	01830	01830	
		01990	02020	02030	02030	02050	02120	02200	02310	02310	02320
				02400							
		02650	02650	02720	02740	02740	02760	02990	03060	03240	03270
		03270	03300	03480	03500	03550	03550	03700	03700	03720	03820
								01000	04090	01000	0/100

		04340	04340	04400	04590	04590	04630	04730	04730	04740	04810	
		04940	04940	04950	05060	05060	05100	05140	05140	05750	05750	
					06510							
		08400	08430	08430	08440	08500	08500	08540	08580	08590	08590	
		08620	08700	08710	08710	08720	08750	08770	08890	.08920	08940	
		08980	09030	09040	09040	09060	09260	09280	09280	09310	09330	
											09670	
		09670	09680	09690	09690	09700	09730	09740	09740	10090	10120	
					10430							
		11150	11190	11220	11240	11270	11290	11310	11330	11350	11370	
					11520						13190	
5		13220	14350	14360	14370	14370	14400	14850	14850	17310		
17310	CHIGO	17120	17350								,	
16890	CKF	16750	16760	16860								
12980	CMDA	12910	12920							1,15		
12940	CMDB	12980	13000									
09600	CMPAR	09520			· · · · · · · · · · · · · · · · · · ·							
12860	CMULT	11800										
12260	CODA	12220						5.15		100		_
12400	CCDC	12280										
12370	CODD	12310										
12200	CODE		12450	12780	12900	14470	14830			1		
12360	CODF	12420								100		_
14190	COMGO		05470	08040	08040				1.50			
03850	COMM	01390										_
16670	COMP		07850	07890	07900	07910	07940	07950	08100	08130	08150	
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12770	CSUB	11760	13000									
12830	CSUBA	12790							* 			_
03810	DIM	01320										
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06660	END	01580					. !					
15600	ENDSR	06630										
06630	ENDX		06660									
16520	ECC	07580										
1577C	ECSW			11210	15180	15350						
10990	EQ2	11040										
11070	EQ3	10990										
11110	EQ4	11000										
10740	ERROR				02980			04120	04660	08090	08610	
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	1551C	FXEXP.	12330								-	
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			12080 12200	12260	12280	12310	12460	12500	12540	12910	13330	
			14530 14540	14550	14560	14580	14590	14600	14640	14650	14660	
. —			14730 14840	14880	14910	14970	15010	15030	15040	15090	15190	
			15200 15220									
	1217°C	INST2	01670 01710	01770	01840	01870	01880	01940	01950	01980		
			02130 04200	10980	11000	11040	11080	11120	12210	12240	12270	
			12470 12490									
			12940 12980								14780	
			14840 14860			14950	15040	15200	15210	15280		
-	01880	101	01680 01720				<u> </u>					
	01990	102	01594 01990	02040	02150							
	01240	ISITE	01090	· · · · · · · · · · · · · · · · · · ·					····			
	04800 05210	KAY KK	04720 041 <u>3</u> 0 043 <u>3</u> 0	ነ በፈጻፉበ	በፈጻጳስ	04390	05030	05090	05290	05330		
	15550	L	00040 00050								00750	
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				13570	13700	13710	13970	14060	The same and the same of the s		
16980	LAST		17020								
16590	LOAD			14050							
15570	LODER		05630	05640	14180	17640					
07520	LOOP	07420	•								
16350	LROUT	07740									
16530	LSTM	07690									
02190	LSUBS		07470	07550							
15710	LTPAR	02420		,							
08050	MOON3	07980					· · · · · · · · · · · · · · · · · · ·				
07590	MCON7		07660								
17400	NO	17060	17070	17080	17090	17110	17280				
10590	NOMB	10080	10250	10410	10540	10550					
09310	NUMB	09410									
09370	NUMB 1	09140	09180	09250	09350	09360	09390	09430			
09560	NUMB2	09430	09460	09530	09540	09550	09570	<u> </u>			
09480	NUMB3	09240	09580								
09400	NUMB5	09620									
10835	OMM1	00020	03910	10830	10880	10900	10920	11600	11650	11670	11690
				11750			11810	12120	12320	12340	12400
		13160	13240	13260	13280	14360					
14440	OP	12370	12440	12630	12660	12740	12770	12860	12890	12950	14460
	1	14510	15510								
16550	OUT	04050	04080	04130	04280	04290	04320	04330	04360	04380	04680
		04690	04820	04830	04840	04970	04990	05360	05370	05480	05490
		05580	.05600	05700	05710	05720	05960	05990	06090	06090	06100
		06100	06110	06110	06120	06120	06130	06130	06140	06150	06160
	·	06170	06560	10050	10070	10110	10240	10250	10280	10290	10370
				13390							
		13510	13510	13530	13530	13540	13550	13550	13560	13560	13570
		13580	13600	13610	13610	13620	13660	13700	13710	13720	137
				13740							
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1654C	OVERL	00130									
06390	PAUSE	01620									
164-6		10150			× .						
10670	PETA	TO TO		00700	00000	00010	00000	00900	00970	00990	01000
	PETA PHI		00780	00790	00820	00840	00300				
10670 16640		00400		01060				01100	01100	01110	01140
		00400 01000	01030		01070	01070	01080				
		00400 01000 01160	01030 01230	01060	01070	01070 02290	01080 02880	02890	03120	03130	03150
		00400 01000 01160 03170	01030 01230 03180	01060 02200 03190	01070 02280 03190	01070 02290 03200	01080 02880 03900	02890 05030	03120 05040	03130 05080	03150 05110
		00400 01000 01160 03170 05120	01030 01230 03180 05130	01060 02200	01070 02280 03190 05180	01070 02290 03200 10850	01080 02880 03900 10860	02890 05030 13930	03120 05040 13940	03130 05080	03150 05110
16640	PHI	00400 01000 01160 03170 05120	01030 01230 03180 05130	01060 02200 03190 05170	01070 02280 03190 05180	01070 02290 03200 10850	01080 02880 03900 10860	02890 05030 13930	03120 05040 13940	03130 05080	03150 05110
09750	PHI_ PLUS	00400 01000 01160 03170 05120 09610 01610	01030 01230 03180 05130	01060 02200 03190 05170 09660	01070 02280 03190 05180	01070 02290 03200 10850	01080 02880 03900 10860	02890 05030 13930	03120 05040 13940	03130 05080	03150 05110
0975C 0170C	PHIPLUSPRINT	00400 01000 01160 03170 05120 09610 01610 06890	01030 01230 03180 05130 09620	01060 02200 03190 05170 09660	01070 02280 03190 05180	01070 02290 03200 10850	01080 02880 03900 10860	02890 05030 13930	03120 05040 13940	03130 05080	03150 05110
0975C 0170C 1670C 0299C	PHI PLUS PRINT PSTAR PUNCT	00400 01000 01160 03170 05120 09610 01610 06890 02480	01030 01230 03180 05130 09620 07030 03380	01060 02200 03190 05170 09660	01070 02280 03190 05180	01070 02290 03200 10850	01080 02880 03900 10860	02890 05030 13930	03120 05040 13940	03130 05080	03150 05110
0975C 0170C 1670C	PHI PLUS PRINT PSTAR	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410	01030 01230 03180 05130 09620 07030 03380 13980 04850	01060 02200 03190 05170 09660 17340 14030 05000	01070 02280 03190 05180 09680	01070 02290 03200 10850 09710	01080 02880 03900 10860 09720	02890 05030 13936 09720	03120 05040 13940 09730	03130 05080 13940	03150 05110 17660
0975C 0170C 1670C 0299C 13950	PHI PLUS PRINT PSTAB PUNCT PUTTD	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410	01030 01230 03180 05130 09620 07030 03380 13980 04850	01060 02200 03190 05170 09660 17340	01070 02280 03190 05180 09680	01070 02290 03200 10850 09710	01080 02880 03900 10860 09720	02890 05030 13936 09720	03120 05040 13940 09730	03130 05080 13940	03150 05110 17660
0975C 0170C 1670C 0299C 13950	PHI PLUS PRINT PSTAB PUNCT PUTTD	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520	01060 02200 03190 05170 09660 17340 14030 05000	01070 02280 03190 05180 09680 05380 13630	01070 02290 03200 10850 09710 05500 13640	01080 02880 03900 10860 09720	02890 05030 13936 09720	03120 05040 13940 09730	03130 05080 13940	03150 05110 17660
0975C 0170C 1670C 0299C 1395C 13850	PHI PLUS PRINT PSTAB PUNCT PUTTD	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600	01070 02280 03190 05180 09680 05380 13630 15410 06600	01070 02290 03200 10850 09710 05500 13640 15430 11940	01080 02880 03900 10860 09720 05610 13690	02890 05030 13936 09720 05730 13750	03120 05040 13940 09730 06180 13780	03130 05080 13940 06670 13820	03150 05110 17660 13410 13830
0975C 0170C 1670C 0299C 13950	PHI PLUS PRINT PSTAB PUNCT PUTTC PUTX	00400 01100 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600 14760	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760	01070 02290 03200 10850 09710 05500 13640 15430 11940 15050	01080 02880 03900 10860 09720 05610 13690 11940 15050	02890 05030 13936 09720 65730 13750 13030 15250	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	13410 13830 14570 15420
0975C 0170C 1670C 0299C 1395C 1385C	PHI PLUS PRINT PSTAR PUNCT PUTTD PUTX	00400 01100 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600 14760	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760	01070 02290 03200 10850 09710 05500 13640 15430 11940 15050	01080 02880 03900 10860 09720 05610 13690 11940 15050	02890 05030 13936 09720 65730 13750 13030 15250	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	13410 13830 14570 15420
0975C 0170C 1670C 0299C 1395C 13850	PHI PLUS PRINT PSTAB PUNCT PUTTC PUTX	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610 01970	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610 01970	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760 02140	01070 02290 03200 10850 09710 05500 13640 15430 11940 15050 04260	01080 02880 03900 10860 09720 05610 13690 11940 15050 04260	02890 05030 13936 09720 05730 13750 13030 15250 13056	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	13410 13830 14570
0975C 0170C 1670C 0299C 1395C 1385C	PLUS PRINT PSTAR PUNCT PUTTD PUTX PUT1	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610 01970 13360	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610 01970 14770	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600 14760 02140 14770	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760 02140	01070 02290 03200 10850 09710 05500 13640 15430 11940 15050 04260	01080 02880 03900 10860 09720 05610 13690 11940 15050 04260	02890 05030 13936 09720 05730 13750 13030 15250 13056	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	13410 13830 14570
0975C 0170C 1670C 0299C 1395C 1385C 1333C	PHI PLUS PRINT PSTAR PUNCT PUTID PUTX PUT1 PUT2 QUERY	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610 01970 13360 10300	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610 01970 14770	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600 14760 02140	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760 02140	01070 02290 03200 10850 09710 05500 13640 15430 11940 15050 04260	01080 02880 03900 10860 09720 05610 13690 11940 15050 04260	02890 05030 13936 09720 05730 13750 13030 15250 13056	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	13410 13830 14570
0975C 0170C 1670C 0299C 1395C 1385C 1336C 1011C 1566C	PHI PLUS PRINT PSTAR PUNCT PUTID PUTX PUT1 PUT2 QUERY RACD	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610 01970 13360 10300 01840	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610 01970 14770 10380	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600 14760 02140 14770	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760 02140	01070 02290 03200 10850 09710 05500 13640 15430 11940 15050 04260	01080 02880 03900 10860 09720 05610 13690 11940 15050 04260	02890 05030 13936 09720 05730 13750 13030 15250 13056	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	13410 13830 14570 15420
0975C 0170C 1670C 0299C 1395C 1385C 1336C 1011C 1566C 1565C	PHI PLUS PRINT PSTAP PUNCT PUTTD PUTX PUT1 PUT2 QUERY RACD RATY	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610 01970 13360 01840 01870	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610 01970 14770 10380	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600 14760 02140 14770	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760 02140	01070 02290 03200 10850 09710 05500 13640 15430 11940 15050 04260	01080 02880 03900 10860 09720 05610 13690 11940 15050 04260	02890 05030 13936 09720 05730 13750 13030 15250 13056	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	13410 13830 14570
0975C 0170C 1670C 0299C 1395C 1385C 1336C 1011C 1566C 1565C 0184C	PHI PLUS PRINT PSTAP PUNCT PUTTD PUTX PUT1 PUT2 QUERY RACD RATY RDCD	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610 01970 13360 01840 01870 01760	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610 01970 14770 10380	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600 14760 02140 14770 10650	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760 02140	01070 02290 03200 10850 09710 05500 13640 15430 11940 04250 15260	01080 02880 03900 10860 09720 05610 13690 11940 15050 04260	02890 05030 13936 09720 05730 13750 13030 15250 13056	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	13410 13830 14570 15420
0975C 0170C 1670C 0299C 1395C 1385C 1336C 1011C 1566C 1565C	PHI PLUS PRINT PSTAP PUNCT PUTTD PUTX PUT1 PUT2 QUERY RACD RATY	00400 01000 01160 03170 05120 09610 01610 06890 02480 13900 04410 13430 13860 04240 14610 01970 13360 01840 01870 01760	01030 01230 03180 05130 09620 07030 03380 13980 04850 13520 13890 04240 14610 01970 14770 10380	01060 02200 03190 05170 09660 17340 14030 05000 13590 13920 06600 14760 02140 14770	01070 02280 03190 05180 09680 05380 13630 15410 06600 14760 02140	01070 02290 03200 10850 09710 05500 13640 15430 11940 04250 15260	01080 02880 03900 10860 09720 05610 13690 11940 15050 04260	02890 05030 13936 09720 05730 13750 13030 15250 13056	03120 05040 13940 09730 06180 13780 13030 15250	03130 05080 13940 06670 13820 14570 15420	03150 05110 17660 13410 13830 14570 15420

	15720	RTPAR	03080	
	16080	RVSGN	16180 16180	
	10870	S	11180 11480 12130 13200 13300 14380	
	09030	SALT	09010 09050 09860 09870	
-	04040	SENSE	04000	
	1575C	SLASH	03010	
	0073C	SLOT	00680 06190	
	07930	SMCNT	00030 00090 00760 01930 04690 04700 04780 04800 04890 04990	
-		3, 0,4,	05170 05210 05370 05410 05490 05630 05710 06820 07780 07820	
			07900 08030 08180 08200 08220 08260 08350 10010 10460 10640	
			16710 16720 16800 16920	
	07940	SMNOT	07890	
	0778C	SMTLU	0680C 08880 09120 09220 09810 09830 13090	
	08100	SMTST	07870 07940 09940 09970	
	11730	SS	10930 11440	-
	11150	SSA	10870 11380	
	10950	SSP	10890	
	1525 0	SSBCD	15170 15330	
	11650	SSC	11620 13180	
	12090	SSCA	11660	
	11600	SSCAI	11280	
	1200C	SSCB	11680	
	1142C	55001	11230	
	11770	SSI	11300 11510	
	11810	SS2	11540	
	11500	\$\$3	11320 13230	
	11410	S S 4	11250	
	11560	\$\$5	11340 11980	
	1183C	\$\$6	11360	
	06450	STCP	01470	
	14090	SUBI	13370	
	10675	SUBN	00080 10320 10330 10340	
	15700	SWC	02180	
	02470	SWLP	02270 02410 02440	
	16660	SYM	02680 02790 02800 02920 02930 02940 02960 03330 03340 03650	
			03660 03750 03960 03970 03980 03990 04000 04780 06560 06780	
			07860 07970 07980 07990 08000 08020 08100 08130 08420 08460	
			08460 08460 08480 08650 08670 08680 08700 08790 08820 08830 09010 09020 09030 09080 09090 09100 09110 09140 09170 09190	
			09200 09210 09230 09250 09350 09400 09440 09480 09540 09750	
			09770 09800 09810 09820 09860 10540 13070	
	14010	TEMP	14530 14580 14740 14780 15190 15300	
	<u>14810</u> 04170	TEN	11720	
	17090	TEFAC	04190 12200 14590 15030	
	04410	THAT	04140	
	02650	TIER	03560 02590 02610	
	17660	TOP	10350 13480	
	15350	TRACE	01338 01562 07687	
-	15610	TRACX	15480	
	02870	TRANS	02280 02420 02450 02530 02690 02300 02810 02830 02840 02850	
	<u> </u>		02890 02930 03010 03030 03080 03100 03320 03400 03420 03530	_
			03570 03600 03640 03660 03680 03720 03730 03770	
	17100	TRY	17290	
_	15210	TWAGS	15130 15160	
	00340	TYST	00335 10765	
_	07190	VAR	07070 07130 07310	_
	09510	VARBR	09470 09530	
	15670	WACD	01670	
	07100	WADDR	06960 06990 07050 07190 07200 07230	
	15690	WATY	C1710	

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	03450	WIDTH	02300	02940	03370								
	07140	WNUMB		06980	07040								-0-
	15740	XTYPE	03600	00000	•								
	10785 15410	ZERO9 ZOT	00150		15360	15390							
	01800	ACCEPT	01520	11130	19900	1 3 3 30							
~	05350	BEGPRO	01336						,				
	00960	BLANKS	00620	00800									
	16110	BRINST				05420							
	16600	BUFBAS		06820	06830	06840	06850	07430	07520	07530	13900	13950	
			14030										:
-	10390	COLECT	10060	10230	10560	14670	14700	14000	14020	14040	15000	15000	
	13030	COMMON	15110	12570	13040	14010	14700	14900	14950	14300	17000	13090	
	15640	COMPLT	02130										
	05030	COMPUT	04960	05100									
· · · · · · · · · · · · · · · · · ·	03240	CONFMT			06210	10770							
	06380	CONTIN	01380										
	06510	CONTRL		06460				٠.					
	08530	DIMONT			08510		00550						
	15800	DMSWCH DORCRD	03810 05960	03860	08050	08354	טככטט						
	06230 15820	DOSWCH	00660	05950	·				·				
	04340	ELEVEN		04150	04400								
	05530	ENDPRO	01554	<u> </u>	01100								
	10790	ERRMSS	10740	10750		· ·							<u> </u>
	09780	EXCESS		09160	09760								
	05690	EXPROC	C1574										
	16580	FCTEND		08160	16700	17040	17170	17190	17250	17270			
	03120 15810	FINISH FLAGSW	03090	10690	11410	11430	11520	12490	12620	12670	12730	12930	
	12010	FLAGSW				14890				12010	12130	12750	
	09430	FLNUMB	09320	11330	11110	11070	11700	13020	13100				
	15910	FLOAT1	16160	16160									
	16160	FLOAT2	15160										
	06980	FLPCON	06940		·		· · · · · · · · · · · · · · · · · · ·						
	02200	FORMAT	00950										
-	00740	FRMAT1 FRMAT2	00910	00770	00020	00860	00000	00000					
	00840 15860	FRMSCT	00740	00110	00830	00000	00000	00090					1
	09140	FXNUMB	09340										
	10895	FXORFL		08900	09000	09150	09790	10140	15520				
1	06950	EXPCON	07080										
_	06280	GOTORC	05040		·	,				·		·	
	03640	HCONT 1	03560					**					1
	03710	HCONT2		03670				 					
	03700 03750	HCONT3	03760	03710									
	03750 04450	HCONT4 IFRCFL	04280	03110									
	04430	IFRCEX	04200										
	04560	IFSSRC	04050									· · · · · · · · · · · · · · · · · · ·	
	15830	IFSWCH	00150	03930	09880	11620							
	07685	INCREM	01020										
	<u> </u>	IOINST	01980	··········		·					····		 :
	16440	LROUT2	07750	04050	04070	04.000	07700	. 07700	17020	17040			*
	16570 10720	MEMCAP NOSPCE		06850 07950		06880	01180	01190	17030	1/040			
	07070	NOTACC	07010	017.70									
	07010	NOTCON	06930								·		
	09230	NUMBER		08930	09240	09460	09470						
			:				•						
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	1												
	01600	DUTCHK	01490										
	02810	PRETRN	02700										
	10630	PUTETA		08170	08300								
	10170	PUTETB				04170	10690	10860	11850	12000	12010	12220	
	10110	101210		13060		01210							
	14330	PUTOMG				13250	13270	13290	14420				
an appear to the second	14350	PUTOMH			12110			13270	11120				
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	LOCTN	<u>OP</u>	P/L	Q	PG L	.N	LABEL	MNEM	OPERANDS AND REMARKS PAGE 1	
					00 0	100	* PDG	-) FOR 1	TRAN SUBROUTINE RELOCATOR 11/63	-
	00500				00 0			DURG	500‡	-
	00500	25	00400	00467	00 0		START	TD	400,467‡	
	00512		00524		00 0			BLC	*&12‡	
	00524		00401		00 0			TDM	401‡	
	00535		1		00 0			DC	1, a, **	
	00536	26	02481	00406	00 0			TF	INCRE, 406#	
	00548		02481		00 0			SM	INCRE, 5000+	
	00560		00604		00 0			8D	*E44,450‡	
	00572		02031		00 0				CHGLD1-5#	
	00512		02113		00 1				CHGLD1-3+	
	00596		00628		00 1			B	*632*	_
	00604	47	00020	00000	00 1			DORG		
		21	05106	02024	00 1				I,CHGLD1#	
	00604							TR		
	00616		05190		00 1		ENOCUE	TR	1884,CHGLD2812#	
	00628		02380		00 1		ENDSUB	RNCD		
	00640		01540		00 1			BD	ARITH, LODER2-4#	
	00652		02380		00 1			SF	BIN+	
	00664		02483		00 1			<u>TF</u>	BOXE1,BINE1‡	
	00676		02483		00 1			A	BOXE1,BINE1‡	
	00688		02381		00 2			CM	BINE1,1,10#	
	00700		00884		00 2			BE	SINE#	
	00712		00747		00 2			TFM	*835,465‡	_
	00724		00747		00-2			5	*&23,80X&1‡	
	00736		00780		00 2			BD	FUNCT#	
	00748		02380		00 2		н0		BIN#	
	00760		00748		00 2			BNR	HO,LODER2-3+	_
	00772	49	00628	00.000	00 2			В	ENDSUP #	
	00780				00 2				* -3 *	
	00780	32	00996	00000	00 2	290	FUNCT	SF	RELO#	
	00792	26	02447	00470	00 3			TF	LODER2-1,470‡	
-	00804		02448		00 3			TDM	LODER2‡	
	00816		02447		00 3			S	LODER2-1,80X&1+	
	00828		02453		00 3			TF	LODER, LODER2+	
	00840		02453		00 3			TDM	LODER,9‡	
	00852		02380		00 3			TR	BIN, BARF*	
	00864		02386		00 3			A	BINE6, INCRE+	
	00876		01240		00 3			8	CON2‡	
	00816	• /	10		00 3				*-3‡	
	00884	43	00916	00465	00 3		SINE	BD	*&32,465 [‡]	
	00896		00916		00 4		U = 11L	BD	*£20,463‡	
	00908		00748		00 4			В	HO‡	
	00908	77	00170	00000	00 4				* -3 ‡	
	00916	26	02453	00471	00 4			TF	LODER, 471#	
	00918		02433		00 4			TF.	LODER2,LODER#	
			02448		00 4			TDM	LODER2+	
	00940 00952		02448					TR	BIN,8ARF2#	
					00 4					_
	00964		02386		00 4			A	BINE6, INCRE#	
	00976		00996		00 4			CF	RELO‡	
	00988	49	01240	00000	00.4			B	CON2#	
	00996		00700	00001	00 5		DE. C		*-3 +	
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	01032	26	02453	02448	00 5	240		TF	LODER, LODER2#	

	2	PAGE	D REMARKS	DPERANDS AN	MNEM	LABEL	PG LN	Q	P/L	LOCTN OP
		1.3	•	LODER,1+	ΔM	•	00 550	-0001	02453	01044 11
				BIN, 400+	TR		00 560	00400	02380	01056 31
			•	CONST#	В		00 570	00000	01180	
				* −3 ‡	DORG		00 580			01076
	•		3‡	YYM, LODER2-	BNR	XX	00 590	02445	01132	01076 45
				BIN#	SF		00 600		02380	
				406,BIN&4+	Α		00 610	02384	00406	01100 21
				INCRE, BIN&4	A		00 620	02384	02481	
				ENDSUB#	В		00 630	00000	00628	01124 49
				* -3 	DORG		00 640			01132
1				CONST, MARK#	BD	YYM	00 650	02441	01180	01132 43
				*&23,BIN#	TFM		00 660		01167	
				BOX#	TR	LOOP	00 670	00000	02482	
				MOD, BOX+	BNR		00 680		01272	
· · · · · · · · · · · · · · · · · · ·	,		E‡	LODER2, INCR	A	CONST	00.690	02481	02443	
				LODER, INCRE	A		00 700		02453	
				LODER,411#	C		00 710		02453	
				¥&24 ‡	BNH		00 720		01240	
í				450,1#	TDM		00 730	00001	00450	
				SUBR,450#	BD	CON2	00 740		01448	
					WNCD		00 750		02380	
				RELO#	В		00 760	00000	00996	01264 49
;					DORG		00 770			01272
			BOX#		BNF	MOD	00 780	02482	01332	
			1‡		TDM	•	00 790		01321	
			#93X0B		BNF		00 800		01320	
			2‡		TDM		00 810		01321	
			INCRE#		A		00 820		02488	
			BOX&1#		BNF		00 830		01392	
. :	*************		1#		TDM		00 840		01381	
			#113XOB		BNF		00 850		01380	
			2‡		TDM		00 860		01381	
			INCRE#		A		00 870		02493	
				*&18,LOOP&1	TF		00 880		01410	
				,BOX #	TR		00 890		00000	
				BINE1#	CF		00 895		02381	
				LOOP&11,12#	AM		00 900		01167	
				LOOP#	В		00 910		01156	
1					DORG		00 920			01448
				RELO,450#	BNF	SUBR	00 930	00450	00996	
			-	*&66,LODER+	TF_		00 940		01526	
				*&42,LODER2	TF	•	00 950		01514	
				*&23,LODER#	TF		00 960		01507	
				*&35 ‡	TD		00 970		01531	
				,BIN.≠	TR.		00 980		00000	
				‡	TDM		00 990		00000	
. !				RELO#	В		01 000		00996	
					DORG		01 010			01540
			ZERO#		TR	ARITH	01 020	02194	00000	
				99‡	TDM		01 030		00099	
				HERE,450#	BD		01 040		01396	
				402, DNB&10#	TR		01 050		00402	
				IMAGE&61,1,	TFM		01 060		02441	
								<u></u>		
· · · · · · · · · · · · · · · · · · ·				1,0,*-1#	DC		01 070		1	01598

D	LOCIN	ÜÞ	P/L	<u>Q</u>	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 3
	01612	ló	02453	-0060	01	090		TFM	IMAGE&73,60‡
	01624	16	01659	-0000	01	100		TFM	TD811,0#
	01636	15	01654	-2380		110		TFM	TD&6,IMAGE#
	01648	25	00000	00000	01	120	TD	TO	‡
	01660	11	01554	-0001		130		AM	TD&6,1#
	01672	11	01659	-0001	01	140		MA	TD611,1#
	01684	14	01654	-2440	01	150		CM	TD&6,IMAGE&60#
	01696	47	01648	01300	01	160		BL	TD#
	01708	11	01731	00-01	01	170		AM	*&23,1,9
	01720		02459			180		TFM	IMAGE&79,499#
	01732		02455			190		CF	IMAGE&75‡
	01744		02380			200			IMAGE+
	01756		02448			210		AM	IMAGE&68,60‡
	01768		02453			220		AM	IMAGE&73,60#
	01780		01659			230		CM	TD&11,401‡
7	01792		01636			240		BL	TD-12#
	01804		02380			250			IMAGE#
	01816		02380			260			IMAGE#
	01828		01804			270			*-24
	01340		00000			280	Q	RCTY	‡
	01852		02295			290	W	WATY	
			00000			300			‡
	01864							H	
	01876		00000			310		RNCD	0 +
	88610	49	00000	00000		320		8	0#
	01896		0.2.61.2.4	2.450		330	11505		*-3 +
	01896		01916			340	HERE	BNF	OVER,450#
D	01908	49	05106	0000		350		3	I +
	01916					360		DURG	
	01916		02380			370	OVER		I MAGE‡
	01928		01916			3 80			*-12 ‡
	01940		00406			390		<u>S</u>	406,411‡
	01952	15	00407	00000		400		TDM	407‡
	01963		1			410		DC	1,0,**
	01964	33	00402	00000	01	420		CF	402‡
	01976	34	00000	00102	01	430		RCTY	+
	01988	39	C2335	00100	01	440		WATY	M2‡
	02000	3 8	00402	00100	01	450		WNTY	402‡
	02012	39	02359	00100	01	460		WATY	M3‡
	02024	49	.01840	-5106	01	470		В	Q,I,7‡
	02036		05198			480	CHGLD1		
	02048	26	05172	05266		490		TF	I&66, I&160‡
	02060		05165			500		TF	1859,18165#
	02072		05184			510		TF	1878,18165#
	02084		U5189			520		TD	I&83‡
	02096		00000			530		FR	,1692‡
	02108		00000			540		TDM	‡
	02112	•		23000		550			≠ −7‡
	02112		1			560		DC	1,0‡
	02117			-0152		570		DSA	152‡
	02118	31	05190			580	CHGLD2		I & 84, 164 ‡
	02116		U5106			590	UNIVERSE	Б	I ‡
	02130	77	00100	00000		600			*-4+
						610		DC	1,2+
	02137		20			620	DNB		20‡
	02157		20 35			630	OND	DNB DNB	35‡
_	<u> 02192</u>				4 1 1	ひつひ		Dist)	1 J+

LOCTN OP P/L U PG LN LABEL MNEM OPERANDS AND REMARKS PAGE 4 O2193 1 01 640 DC 1,04
02194 26 -5105 05103 01 650 ZERD TF I-1,I-3,2‡ 02206 11 00006 -0002 01 660 AM 6,2‡ 02218 14 00006 -5317 01 670 CM 6 ,16211‡ 02230 47 00000 C1300 01 680 BL 0‡ 02242 41 00000 C00000 01 690 NOP ‡ 02254 34 00000 00102 01 700 RCTY ‡ 02266 36 00000 60500 01 710 RNCD 0‡ 02278 49 00008 00000 01 72C B 8‡ 02291 2 01 730 DC 2,0‡ 02293 2 01 740 DC 2,0‡ 02293 2 01 740 DC 2,0‡ 02335 12 01 760 M2 DAC 12,0VERLAP OF @‡ 02335 12 01 760 M2 DAC 12,0VERLAP OF @‡ 02335 12 01 760 M2 DAC 12,0VERLAP OF @‡ 02380 1 01 780 BIN DS 1‡ 02380 01 790 IMAGE DS ,BIN‡ 02380 01 790 IMAGE DS ,BIN‡ 02380 01 790 IMAGE DS ,BIN‡ 02441 1 01 810 MARK DS 1‡ 02443 2 01 820 DS 2‡ 02448 5 01 830 LODER2 DS 5‡ 02448 5 01 830 LODER2 DS 5‡ 02459 6 01 850 DS 6‡ 02460 M9 05000 00000 01 800 BARF B 5000,,0‡ 02467 01 880 DC 1,@‡ 02468 M9 05032 00000 01 890 BARF B 5032,,0‡ 02468 M9 05032 00000 01 890 BARF B 5032,,0‡ 02468 M9 05032 00000 01 890 BARF B 5024,0‡
02194 26 -5105 05103 01 650 ZERD TF I-1,I-3,2‡ 02206 11 00006 -0002 01 660 AM 6,2‡ 02218 14 00006 -5317 01 670 CM 6 ,16211‡ 02230 47 00000 C1300 01 680 BL 0‡ 02242 41 00000 C00000 01 690 NOP ‡ 02254 34 00000 00102 01 700 RCTY ‡ 02266 36 00000 60500 01 710 RNCD 0‡ 02278 49 00008 00000 01 72C B 8‡ 02291 2 01 730 DC 2,0‡ 02293 2 01 740 DC 2,0‡ 02293 2 01 740 DC 2,0‡ 02335 12 01 760 M2 DAC 12,0VERLAP OF @‡ 02335 12 01 760 M2 DAC 12,0VERLAP OF @‡ 02335 12 01 760 M2 DAC 12,0VERLAP OF @‡ 02380 1 01 780 BIN DS 1‡ 02380 01 790 IMAGE DS ,BIN‡ 02380 01 790 IMAGE DS ,BIN‡ 02380 01 790 IMAGE DS ,BIN‡ 02441 1 01 810 MARK DS 1‡ 02443 2 01 820 DS 2‡ 02448 5 01 830 LODER2 DS 5‡ 02448 5 01 830 LODER2 DS 5‡ 02459 6 01 850 DS 6‡ 02460 M9 05000 00000 01 800 BARF B 5000,,0‡ 02467 01 880 DC 1,@‡ 02468 M9 05032 00000 01 890 BARF B 5032,,0‡ 02468 M9 05032 00000 01 890 BARF B 5032,,0‡ 02468 M9 05032 00000 01 890 BARF B 5024,0‡
02218 14 00006 -5317 01 670
O2230
02242 41 00000 00000 01 690
O2254 34 00000 00102 01 700
02266 36 00000 00500 01 710 RNCD 0‡ 02278 49 00008 00000 01 720 E 8‡ 02291 2 01 730 DC 2,0‡ 02293 2 01 740 DC 2, @‡ 02295 20 01 750 M1 DAC 20,PROCESSING COMPLETE@‡ 02335 12 01 760 M2 DAC 12,0VERLAP OF @‡ 02359 11 01 770 M3 DAC 11, POSITIONS@‡ 02380 1 01 780 BIN DS 1‡ 02380 0 1790 IMAGE DS ,BIN‡ 02440 60 01 800 DS 60‡ 02441 1 01 810 MARK DS 1‡ 02443 2 01 820 DS 2‡ 02448 5 01 830 LODER2 DS 5‡ 02453 5 01 840 LODER DS 5‡ 02459 6 01 850 DS 6‡ 02459 6 01 850 DS 6‡ 02460 M9 05000 00000 01 860 BARF B 5000,,0‡ 02467 01 870 DORG *-4‡ 02468 M9 05032 00000 01 890 BARF2 B 5032,,0‡ 02476 01 910 DC 1,@‡
02278
02291
02293 2
02295 20 01 750 M1 DAC 20, PROCESSING COMPLETER \$ 02335 12 01 760 M2 DAC 12, OVERLAP OF a \$ 02359 11 01 770 M3 DAC 11, POSITIONS \$ 02380 1 01 780 BIN DS 1 \$ 02380 01 790 IMAGE DS , BIN \$ 02440 60 01 800 DS 60 \$ 02441 1 01 810 MARK DS 1 \$ 02443 2 01 820 DS 2 \$ 02448 5 01 830 LODER 2 DS 5 \$ 02453 5 01 840 LODER DS 5 \$ 02459 6 01 850 DS 6 \$ 02460 M9 05000 00000 01 860 BARF B 5000, 0 \$ 02467 01 870 DORG \$ \$-4 \$ 02468 M9 05032 00000 01 890 BARF B 5032, 0 \$ 02468 M9 05032 00000 01 890 BARF B 5032, 0 \$ 02476 01 900 DORG \$ \$-3 \$ 02476 1 01 910 DC 1, \$ \$ \$ \$
02335
02359 11 01 770 M3 DAC 11, POSITIONS@# 02380 1 01 780 BIN DS 1# 02380 01 790 IMAGE DS , BIN# 02440 60 01 800 DS 60# 02441 1 01 810 MARK DS 1# 02443 2 01 820 DS 2# 02448 5 01 830 LODER2 DS 5# 02453 5 01 840 LODER DS 5# 02459 6 01 850 DS 6# 02460 M9 05000 00000 01 860 BARF B 5000,,0# 02467 01 870 DORG *-4# 02467 1 01 880 DC 1,@# 02468 M9 05032 00000 01 890 BARF2 B 5032,,0# 02476 01 900 DORG *-3#
02380
02380 01 790 IMAGE DS ,BIN‡ 02440 60 01 800 DS 60‡ 02441 1 01 810 MARK DS 1‡ 02443 2 01 820 DS 2‡ 02448 5 01 830 LODER2 DS 5‡ 02453 5 01 840 LODER DS 5‡ 02459 6 01 850 DS 6‡ 02460 M9 05000 00000 01 860 BARF B 5000,0‡ 02467 01 870 DURG *-4‡ 02467 1 01 880 DC 1,3‡ 02468 M9 05032 00000 01 890 BARF2 B 5032,0‡ 02476 01 900 DURG *-3‡ 02476 1 01 910 DC 1,3‡
02440 60 01 800 DS 60‡ 02441 1 01 810 MARK DS 1‡ 02443 2 01 820 DS 2‡ 02448 5 01 830 LODER2 DS 5‡ 02453 5 01 840 LODER DS 5‡ 02459 6 01 850 DS 6‡ 02460 M9 05000 00000 01 860 BARF B 5000,,0‡ 02467 01 870 DORG *-4‡ 02467 1 01 880 DC 1,0‡ 02468 M9 05032 00000 01 890 BARF2 B 5032,,0‡ 02476 01 900 DORG *-3‡ 02476 1 01 910 DC 1,0‡
02441
02443 2 01 820 DS 2‡ 02448 5 01 830 LODER2 DS 5‡ 02453 5 01 840 LODER DS 5‡ 02459 6 01 850 DS 6‡ 02460 M9 05000 00000 01 860 BARF B 5000,0‡ 02467 01 870 DORG #-4‡ 02467 1 01 880 DC 1,0‡ 02468 M9 05032 00000 01 890 BARF2 B 5032,0‡ 02476 01 900 DORG #-3‡ 02476 1 01 910 DC 1,0‡
02453 5 01 840 LODER DS 5‡ 02459 6 01 850 DS 6‡ 02460 M9 05000 00000 01 860 BARF B 5000,,0‡ 02467 01 870 DORG #-4‡ 02467 1 01 880 DC 1,0‡ 02468 M9 05032 00000 01 890 BARF2 B 5032,,0‡ 02476 01 900 DORG #-3‡ 02476 1 01 910 DC 1,0‡
02459 6 01 850 DS 6‡ 02460 M9 05000 00000 01 860 BARF B 5000,,0‡ 02467 01 870 DURG *-4‡ 02467 1 01 880 DC 1,@‡ 02468 M9 05032 00000 01 890 BARF2 B 5032,,0‡ 02476 01 900 DURG *-3‡ 02476 1 01 910 DC 1,@‡
02460 M9 05000 00000 01 860 BARF B 5000,,0\$ 02467 01 870 DCRG *-4\$ 02467 1 01 880 DC 1,3\$ 02468 M9 05032 00000 01 890 BARF2 B 5032,,0\$ 02476 01 900 DCRG *-3\$ 02476 1 01 910 DC 1,3\$
02467 01 870 DORG *-4‡ 02467 1 01 880 DC 1,0‡ 02468 M9 05032 00000 01 890 BARF2 B 5032,,0‡ 02476 01 900 DORG *-3‡ 02476 1 01 910 DC 1,0‡
02467 1 01 880 DC 1,0‡ 02468 M9 05032 00000 01 890 BARF2 B 5032,,0‡ 02476 01 900 DURG *-3‡ 02476 1 01 910 DC 1,0‡
02468 M9 05032 00000 01 890 BARF2 B 5032,,0‡ 02476 01 900 DURG #-3‡ 02476 1 01 910 DC 1,3‡
02476 01 900 DURG #-3‡ 02476 1 01 910 DC 1, ##
02476 1 01 910 DC 1, #
07491
02481 5 01 920 INCRE DS 5‡ 02482 1 01 930 BOX DS 1‡
02542 60 01 940 DS 60‡
05106 01 950 I DS ,5106 ,,INOUT&3‡
00500 01 960 DEND START#
01 970 * ‡
01 980 * +
01 990 * SINE AND COSINE+
02 000 * ‡
05000 02 010 DORG 5000+
05000 25 00060 19969 02 020 COS TF FAC,CTAB-1#
05012 J5 05200 0000M 02 030 TDM SIN1,4,011‡
05024 M9 05056 00000 02 040 B SIN&24, 0+
05032 02 050 DORG *-3*
05032 26 00060 19989 02 060 SIN TF FAC,STAB-1+ 05044 J5 05200 00002 02 070 TDM SIN1,2,0+
05044 J5 05200 00002 02 070 TDM SIN1,2,0# 05056 33 00099 00000 02 080 CF 99#
05068 14 00052 000M7 02 090 CM FAC-8,47,10+
05080 M7 05556 01300 02 100 BL SIN2, 0, BRANCH FOR SMALL ARG. #
05092 J6 05175 00-42 02 110 TFM *&83,42,09‡
05104 K1 05175 00052 02 120 A *£71,FAC-8,0\$
05116 4L 01062 05173 02 130 BD ER 9 ,*&57 ,1#
05128 32 00053 00000 02 140 SF FAC-7#
05140 16 00079 -0000 02 150 TFM 79,0‡
05152 K3 05602 00060 02 160 M SIN2P, FAC, 0‡
05164 26 00060 00000 02 170 TF FAC,,, X IN FIXED-POINT REVS‡
05176 M4 05200 00099 02 180

LCCTN	СP	P/L	<u>O</u>	PG	LN	LABEL	MNEF	OPERANDS AND REMARKS PAGE 5
05188	32	00060	00000	02	190		SF	FAC‡
05200		00060			200	SINI		FAC, SIN25,1, BECOMES ADD FOR SINE#
05212		00060			210		C F	FAC#
05224		00047			220			FAC-13,0,114
05236			00060		230		Α	FAC, FAC, X IN HALF REVOLUTIONS #
05248			01907		240		S	FAC, UNE +
05260			00000		250		CF	FAC+
05272		00060			260		A	FAC, FAC+
05284		00060			270		S	FAC, UNE, , X IN RIGHT ANGLES+
05296		00099		02	250		TO	99,FAC+
05308	N3	05568	00047	02	290		80	SIN2&12,FAC-13,0#
05320		84000			300		SE	FAC-12#
05332	23	00057	00057	02	31()		M	FAC-3, FAC-3‡
05344	26	00040	00088		320		TF	FAC-20,88,, X SQUARED#
05356		05403			330	•	TEM	*&47,SINC7,017‡
05368			J5149		340		TEM	FAC810,15149‡
05380			00070		350		14	FAC-20, FAC&10+
05392			occóu		360	,	TF	FACELO,,, LOOP TO EVALUATE#
05404			00090		370		<u>S</u>	FACE10,90,, HASTINGS APPROX. #
05416			-0008		380		SM	* −13, 8, 07 ‡
<u> </u>			00083		390		BNF	*-48,83,0†
05440			00070		400		M	FAC, FAC&10+
05452			CC078		410		BD	SIN2812,78,0, RESULT # 1#
05464			01200		420		B Z	ZERFAC , , RESULT # 0#
05476			00099		430		TF	FACE13,99‡
05488			01982		440		TD	FAC&14,FZEREC#
05500			00000		.450		TEM	
05512			00053		460		BD CA	ENDD-24,FAC-7¢ FAC-8,1,10, LOOP TO NORMALIZE¢
<u>05524</u> 05536			000-1 00054		<u>470</u> 430		SM TK	FAC-7, FAC-6‡
05548			00000		490		8	#-36,,0‡
05556	1-1-3	07712	00000		500			*-3 +
05556	4 N	01052	05200		510	SIN2	BNF	
05568			01851		520	<u> </u>	TF	FAC, FLTONE #
05580			00000		530		8	ENDD-24‡
C558 7		0 2 17 2 17			540			*-4‡
05602		16			550	SIN2P		16,159154943092,, CONSTANTS#
05615		13			560	SIN25	DC	13,-25000000000000
05624		9			570		DC	9,157079532‡
05632		8			580		DC	8,64596371‡
05633		1		02	590	,	DU	1,0‡
05640		.7			600		DC	7,7968960#
05642		2			610		DC	2,0‡
05648		5			620	SINC.7	DC	6,467377‡
19990					630	STAB	DS	,19990‡
19970					640	CTAB	DS	,19970‡
00060					650	FAC	<u>95 </u>	,00060‡
00948					660	ZERFAC		,00948‡
01052					670	ENDO	<u>-DS</u>	,01052‡
01062					680	ER9	DS	,01062#
01851					<u>690</u>	FLTONE		• C1851† 01832+
01382					700	. FZEREC ONE	0.5 0.5	,01832† ,0190 7 ‡
<u>01907</u> 05650					710 720	CITAI		*62‡
00000					730	*	E. C. INIC	+
				(12	1 -2137			

				·							
5	PAGE	Р	REMARKS	AND	OPERANDS	MNEM	LABEL	PG LN	Q	P/L	TN OP
	1, 4,				‡		#	02:740			
		ŧ .	BASE E	L TO	XPONENTI A	E	*	02 750			
					‡		*	02 760			
					5000 ‡	DORG		02 770			00
RGUME	GET A	, ,	AB-1	,ET	FAC	LD	EXP	02 780	19949	00060	
				12#	FAC-5,531	CM		02 790		00055	
F	LARGE	T TO O	EXPONENT		EXP2,,0,	BNL		02 800		05480	
				10#	FAC-8,42,	CM		02 810		00052	
	NT#	(PONE	SMALL EX	,	SETONE,,	BNH		02 820	01100	02284	
	-				FAC-7#	SF		02 830		00053	
				; ‡	98,FZEREC	TF		02 840	01882	00098	72 26
				09#	*&30,140 ,	TFM		02 850		05114	
				8,0#	*&18,FAC-	S		02 860	00052	05114	96 K2
	*	MENT	FIX ARGU		,FAC,,	A		02 870		00000	
				9‡	FAC-8,50,	TFM		02 880	00-50	00052	
#TV	EXPONE	SET	LOOP TO	0,	FAC-8,1,1	AM		02 890	000-1	00052	
	,			ŧ	91,L0G104	S		02 900	01893	00091	
	, , , , , , , , , , , , , , , , , , , ,	•			*-24,,0#	BNN		02 910	01300	05132	
		,0#	,	,99	*&56	BNF		02 920	00099	05224	
MENT	COMPL	,,		,	FAC-8	SF		02 930		00052	
4ENT+	ARGU	,9,	1	,10	FAC-8	AM		02 940		00052	
					91‡	CF		02 950	00000	00091	04 33
		,0+		,	*£20	В		02 960		05236	
					* -3 ‡	DORG		02 970			24
	DRAFT#	OVER	CORRECT	, ,	91,LOG10,	Α		02. 980	01893	00091	
		70.	····		FAC-9#	SF		02 990		00051	
			E-3‡	, ON	FAC&3	TF		03 000	01904	00063	
LOOP:	TALIZE	INIT	C&3,010,	,FA	EXP1-1	TFM		03 010		05327	
			07#	.0G2,	EXP1-13,	TFM		03 020		05315	
					EXP1-18,	TFM		03 030		05310	
		• 0 ‡		•	EXP1860	В		03 040		05388	
						DORG		03 050			304
			G2‡	,LO	91	S		03 060	01948	00091	
			£33		FAC&3	A		03 070		00063	
DIGIT:	INATE	ELIM	LOOP TO	-	*-24,82,0	BD	EXP1	03 080		05304	
					EXP1-1,1	SM		03 090		05327	
					EXP1-13,	SM		03 100		05315	
					EXP1-18,	SM		03 110		05310	
Γ‡	KT DIGI	NEX	STEP FOR		82,83,,	TR		03 120	00083		376 31
					82#	·SF		03 130		00082	
			· ·) ‡	EXP1,93,0	BNR		03 140		05328	
			5 ‡	,86	48	TF		03 150		00048	
				,48	FACE2	M		03 160	00048	00062	
PLY B	MULT	,,		,90	FAC&2	À		03 170		00062	
					FAC&1.5.	AM		03 180		00061	
					FAC-7#	CF		03 190		00053	
					ENDD#	В		03 200		01052	
					*-3 		***************************************	03 210			480
	JMENT+	ARGU	LARGE	,,	ER9,99	BNF	EXP2	03 220	00099	01062	
					ERO#	В		03 230		00912	
			9950#	,19		DS	ETAB	03 240			950
			0060#			DS	FAC	03 250			060
	1 to		912‡			DS	ERO	03 260			912
						DS	ENDD	03 270		· · · · · · · · · · · · · · · · · · ·)52
·			L052‡	, 01		$\sigma_{\mathbf{J}}$	~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

_ D	LCCTN	CP	P/L	<u>Q</u>	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 7
	01382				03	290	FZEREC	DS	,01882‡
	01393				03	300	LOG10	DS	,01893‡
	01907				03	310	ONE	DS_	,01907‡
	01948				03	320	LOG2	DS	,01948‡
	02284				03	330	SETONE	DS	,02284‡
	05500				03	340		DEND	#-3‡
					03	350	#		‡
					03	360	#		‡
					03	370	#		NATURAL LOGARITHM#
					03	380	#		‡
	05000				03	390		DORG	5000‡
	05000	26	C0050	19929	03	400	LOG	TF	FAC-10,LTAB-1#
	05012	14	00050	-000-	03	410		CM	FAC-10,0,711‡
	05024	M 7	05500	01100	03	420		BNP	ELOG,,0#
	05036	12	C0042	00000	03	430		SM	FAC-18,50,10#
	05048	23	01893	00042	03	446		M	LOG10,FAC-18#
	05060	26	00065	00099	03	450		TF	FACE5,99,, LOG OF CHARACTERISTIC# .
	C5672		00043		03	460		SF	FAC-17‡
	05084	28	CC097	00050	03	470		LD	97,FAC-10‡
	05096			OCONO		480		CM	91,50,10, LOOP TILL OVER 0.5#
	05108			61306	03	490		BNL	#844,,0, ANSWER BUILDS UP IN#
	05120			00097		500		A	97,97,, FAC&5.‡
	05132		00065			510		S .	FAC&5,LOG2‡
	05144			00000		520		В	*-48,,0 +
	05152	-				530		DORG	*-3 ‡
	05152	16	05194	00081		540	······································	TFM	LOGIE6,91,010, INITIALIZE LOOP+
	05164			000R8		550		TFM	LOG1&35,98,010#
	05176			-1939		560		TFM	LOG1&47,LOG11,07#
	05188			R9990		570	LOG1	CM	,99990,7, LOOP TILL OVER 0.9999#
	05200			C1300		580		BNL	*844,,0, FIRST 1.1, THEN 1.01,#
	05212			00000		590		A	99,,, AND SO ON. ‡
	05224			00000		600		S	FAC&5‡
	05236			00000		610		В	LOG1,,0*
	05244					620			*-3
	05244	.13	05194	000-1		630		AM	LOG1&6,1,010,STEP 1.1 TO 1.01, ETC.+
	05256			000-1		640		SM	LOG1&35,1,010#
	05268			-0009		650		SM	LOG1&47,9,07‡
	05280			01400		660		BV	LOG1,,0, NO OVERFLOW AT END#
	05292			00098		670		A	FAC&5,98‡
	05304			01903		680		S	FAC&5, ONE-4, LOGX * X-1+
	05316			000N4		690		TFM	FAC-8,54,10‡
	05328			C0065		700		TD	99, FAC&5,, SAVE SIGN+
	05340			00000		710		CF	FACE5#
	05352			01200		720		BZ	ZERFAC , , TEST FOR ZER
	05364			01882		730		TD	FAC&6,FZEREC+
	05376			00054		740		BD	LOGR, FAC-6, 0‡
	05388			00055		750		TR	FAC-6, FAC-5, NORMALIZING LOOP+
	05400			00910		760		TD	FAC65, FILL#
	05412		00052			770		SM	FAC-8,1,10‡
	05424			00000		780	*	E	#-48,,0 [‡]
	05432	11.7	91660	90000		790			* −3‡
		11	1.0042	000-5			LOGR	AM	FAC&2,5,10, ROUND RESULT#
	05432					800	LUUK		
	05444			00000		810		CF BD	FAC-7‡ ENDD-24,FAC-7,,TEST FOR CARRY‡
	05456			00253 000-1		820		80 cu	
		1/	ひいりつ/	UUU-I	じょう	830		<u>S#</u>	FAC-8,1,10#
	05468								

*. **	LCCTN	CP P/L	0	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 3
	05480	31 00053	noôsa	03	840		TR	FAC-7, FAC-6+
	05492	49 01028			850		В	ENDD-24#
	05500		4.		860		DURG	+−3 ‡
	05500	46 01062			870	ELOG	BE	ER9‡
	05512	34 00000	00102		880		RCTY	<u> </u>
	05524	L9 05539			890	*.	WATY	
\$4. v	05536	41 00000	00000		900		NOP	+ *- 9 +
	05538	5			910 920	ERLNM	DAC	- x-y ∓ - 5 - Adama , ERLN@ ‡
	<u>05539</u> 05548	33 00050	00000		930	ENLOYE	CF	FAC-10#
	05560	M9 05036			.940		B :	L0G&36 ,,0 ±
* **** ** **	19930				950	LTAB	DS .	,19930‡
1.44	00060			03	960	FAC	DS -	• • • • • • • • • • • • • • • • • • •
	00910				970	FILL	DS	,00910‡
S. 50 - 5	00948	and the same			980		DS	,00948‡
	01052				990	ENDD	DS	,01052‡
in the state of	01062				000	ER9	DS DS	,01062‡ ,01832‡
	01882 01893	ş			010 020	FZEREC LOG10	DS .	,01893#
	01907				030	ONE	DS	,01907#
	01939	1800 -			040	L0611	DS -	,01939‡
	01948				050	LOG2	DS	,01948‡
1.32	0.5568				060		DEND	*−3 ‡
					070	#		* * * * * * * * * * * * * * * * * * *
84 JUN 187 W		<u> </u>			080		es v	
:	* * * * * * * * * * * * * * * * * * *				096	#	-	SQUARE ROOT#
* +	05000	- 1 i 			100 110	*	DODC	* 5000‡
4	05000 05000	31 00044	01846			SORT	TR	FAC-16, FLTONE-5#
ىدىن ئۇلار دەلە بىر	05012	21 00071			130	36111	Α	FACE11,QTAB-1#
	05024	46 00948			140	e e e e e e e e e e e e e e e e e e e	BE	ZERFAC‡
	05036	M7 05304			150		BN	NSQR , ,0‡
r reserv	05048	13 00063			160		MM	FAC&3,50,10‡
at.	05060	11 00098			170		AM	98,255,9‡
and the second	05072	25 00080			180	· · · · · · · · · · · · · · · · · · ·	TD	FACE20 ,FZEREC+
	05084	15 00072 16 00063	t to		190 200	'i	TDM TEM	FAC&12 ,5 FAC&3,0,9
	05096 05108	M3 05144			210	·	BD	*&36,98,0 [‡]
·	05120	26 00073			220		TF.	FACE13 ,FACE12#
and the second	05132	15 00062			230		TDM	FAC&2‡
	05144			04	240		TFM	*&18,FAC&5,010*
	05156	21 00000	00053		25C	SQRT1	A	,FAC-7#
	05168	M3 05200			260		BD	SQRT2, FAC&2, 0+
447# 11th	05180	12 00053			270		SM	FAC-7,2,10#
	05192	M9 05156	00000		280 290		B	SQRT1,,0‡ +-3‡
	05200 05200	KO 05218	05162		300	SORT2	TF	*&18,SGRT1&6,01
pro S.	05212	22 00000			310	SWILE	S	•FAC-7‡
	05224	J1 05162			320		AM_	SQRT186,1,010#
	05236	31 00043			330		TR	FAC-17, FAC-16#
	05248	33 00060	00000	04	340		CF	FAC+
	05260	32 00061			350		SF	FAC&1‡
	05272	M5 05156			360		BNR	SURT1, FACE12, 0 =
	05284	26 00052			370		TF	FAC-8,97‡
	05296	49 01052	00000	<u>U4</u>	380		<u> </u>	ENDD‡

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LOCTN	ĊР	P/L	G.	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	9	*****
05304				04	390		DORG	* -3 				
05304	34	00000	00102		400	NSCR	RCTY					
05316		05343			410			SGERM	••U#			
05328		00071			420		CF	FACE11#				
05340		00000			430		NOP	*				
05342					440			*-9‡				
05343		5		04	450	SQERM	DAC	5	,NSQRa+			
05352	M9	05048	00000		460		В	SQRT848	,,0#			
19910				04	470	QTAB	DS		, 19910‡		•	
00060				04	4 30	FAC	05		•00060 			
00948					490	ZERFAC	DS		,00948‡			
01052				04	500	ENDD	DS		,01052‡			
01351					510	FLTUNE			,01851#			
01882					520	FZEREC			,01832‡			
05360			·		530		DEND	*-3‡				
					540	*		‡				
					550	*		#				
					560	*		ABSOLUTE V	/ALUE#			
					570	*	0.7.7.0	<u>*</u>				
05000					580	100		5000#				
05000		00060			590	ABS	LD	FAC, ATAB-	- [‡			
05012	49	01052	00000		600	. 4740	В	ENDD#	100004			
19890					610	ATAB	DS		,19890#			
00060					620	FAC	DS		,00060#			
01052		<u> </u>			630	ENDD	DS	. 21	,01052‡			
05020					640		DENU	*- 3 				
					650 660	*		‡				
					670	*		•	HALF %TRU!	ACATIONE ±		
					680	*		#:	TIPLE STILL	TOATTON		
05000					690		DORG	5000#				
05000	28	00070	19869		700	DRH	LD	TFAC	,DTAB-1+			
05012		00060			71C	2	TF	FAC	FZEREC-9#			
05024		00062			720		Ch	TFAC-8	,50	,10#		
05036		05084			730		ВИН	GUT	,	• C#		
05048		00062			740		CM	TFAC-8	,57	,10‡		
0506C		05092			750		BNH	6 0T& 8	,	,0‡		
05072		00060			760		TF	FAC	,TFAC#			
05084		01028		04	770	OUT	3	ENDD-24#				
05092					7.80		DORG	* −3‡				
05092	J 6	05146	-0002	04	790		TEM	TRE6	, 2	,07#		
05104	K1	05146	00062	04	800		Α	TR&6	,TFAC-3	, 0‡		
05116	KO	05151	05146	04	810		TF	TRE11	TRE6	,01#		
05128	J1	05151	-0010	04	820		AM	TRE11	,TFAC-60	, 07‡		
05140		00000			830	TR	TF	<u> </u>				
05152	49	01028	00000	04	840		В	ENDD-24#				
19870					850	DTAB	DS		, 19870‡			
00060					860	FAC	DS.		,00060‡			
00070					870	TFAC	ns .		+6133A4,			
01052					980	ENDD	DS		,01052#			
01882					890	FZEREC			, 01882#			
05160					900		DEND	*-3‡				
					910	*		<u> </u>				
					920	#		‡		•"		
			····	04	930	*		ARCTANGEN'	SUBROUTINE	‡		

	RKS PAGE 10	D REMARKS	AND	OPERANDS	MNEM	LABEL	LN	PG	<u></u> Q	P/L	СP	LCCTN
				‡		*	940	04	•			
				5000#	DORG		950					05000
	ARGUMENT AND#	, GET ARGUI	-1,,		LD	ATAN	960		19849	00060	28	05000
	SAVE SIGN#			ATAN4&11	TD		970			05607		05012
		‡	,10‡	FAC-8,43	CM		980	04	000M3	00052	14	05024
				ENDD-24#	BL		990	04	01300	01028	47	05036
		‡ <u> </u>		FAC-8,51	CM		000	05	000N1	00052	14	05048
			ŧ	ATAN1,,0	BL		010		01300	05104	M7	05060
				FDVR-1.F	TF		020	05	01851	01345	26	05072
	SET RETURN ADDR#		TAN1	ENDD&7,A	TF		030	05	05668	01059	20	05084
	ET RECIPROCAL#	GET RI		FDVR,,,	В		040		00000	01346	49	05096
				* -3 			050		* * *			05104
				84,0,10#	LDM	ATAN1	060			00084		05104
				*854,142	TFM		070		00 J42	05170	JA	05116
				*&42,FAC	<u> </u>		080			05170		05128
		l‡	8,01	#836, #82	BD		090			05176		05140
				FAC-7#	SF		100			00053		05152
	ARGUMENT#	FIX ARGU		,FAC,,	A		110			00000		05164
			<u> </u>	FAC&8,99	TF		120			83000		05176
				FAC-3+	CM		130		-0000	00057	14	05188
	<u> </u>			ATAN3824	BZ		140			05524		05200
				ATAN2E11	TFM		150			05271		05212
	,017#	ANT-11,017			TFM		160		-5695	05511	JO.	05224
				ATAN2&11	SM		170	05	000-1	05271	J2	05236
		,010#	,11,0	ATAN3&11	AM		180		000J1	05511	J1	05248
				85#	CM	ATAN2	190	05	-0000	00085	14	05260
1	TO BRACKET ARG. #			*-36,,0,	BL		200		01300	05236	M7	05272
`		1#	13,1	FAC&5,*-	M		210		05271	00065	2L	05284
				86‡	SF		220		00000	00086	32	05296
	AX+	1 & AX+	•	87,10,10	AM		230	05	00010	00087	11	05308
				FAC-10,9	TF		240		00094	00050	26	05320
			‡	91,FAC&4	LD	• 17 .	250		00064	00091	28	05332
		,1, X-A+	113	81,ATAN2	S		260	05	05271	00081	2K	05344
	%X-AU/%1&AXU+		0,,	90,FAC-1	D		270	05	00050	00090	29	05356
L#	MENT LESS THAN 0.1	ARGUMENT	1.	79,90,,	TF		280	05	00090	00079	26	05368
				76,76#	M		290	05	00076	00076	23	05380
	UARED#	Y SQUARE	2,,	FAC-10,9	TF		300	05	00092	00050	26	05392
		6‡	9786	FAC-12,1	MM		310	05	J9786	00048	13	05404
		2,1‡	ANC2	FAC&4,AT	TF		320	05	05695	00064	20	05416
	UATE POLYNOMIAL#	EVALUATE	, ,	FAC&4,94	S		330	05		00064		05428
	<u></u>	0#	C-10	FACE4,FA	M		340	05	00050	00064	23	05440
		1,1#	ANC1	FAC&4,AT	TF	-	350	05		00064		05452
		· .	‡	FAC&4,92	S		360			00064		05464
			‡	FAC&4,79	M		370			00064		05476
		C-6‡	EREC	FACE4FZ	TF		380	0.5	01876	00064	26	05488
	8A0+	ATANZAU+		FAC&4,,,	A	ATAN3	390			00064		. 05500
	%X□‡	ATAN%XD#		FAC&5,91	Α		400			00065		05512
				FAC&9,FZ	TD		410			00069		05524
				ATAN4, EN	BNF		420			05596		05536
				ENDD&6,B	TFM		430			01058		05548
				ENDD&7+	CF		440		/	01059		05560
	MPLEMENT RESULT#	2,1,COMPLE	ANP2		S		450			00064		05572
			,	FAC&4#	ČF		460			00064		05584
		· · · · · · · · · · · · · · · · · · ·		99‡	TOM	ATAN4	470			00099		05596
			104	FAC-8,51	TFM		480		000N1			05608

LCCIN	l CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	11
05620	43	01028	00053	05	490	•	BD	ENDD-24, FAC-7#		
05632		00053	00054		500		TR	FAC-7, FAC-6, NORMALIZE+		
05644		00052			510		SM	FAC-8,1,10#		
05656		05620			520		В	*-36 ,ATAN1,017*		,
05667					530	ATAN18	DS	, * ‡		
05679		12			540	ATANP2		12,157079632679#		
05688		. 9			550	ATANC1		9,999999996‡		
05695		7			560	ATANC 2		7,3333253‡		
05706		11			570	ATANT	DC	11,78539816340#		
05717		11			580		DC	11,73281510179‡		
05728		11			590		DC	11,67474094222#		
05739		11	**********		600		DC	11,61072596439‡		
05750		11			610		DC	11,54041950027#		
05761		11			620		DC	11,46364760900‡		
05772		11			630		DC	11,38050637711#		
05783		11			640		DC	11,29145679448‡		
05794		11			650		DC	11,19739555985‡		
05805		11			660		DC	11,9966865249‡		
05816		11			670		DC	11,0‡		
19850					680	TTAB	DS	,19850‡		
00060					690	FAC	DS	,00060‡		
01052					700	ENDD	DS	,01052‡		
01060					710	BB	DS	,01060 ‡		
01346					720	FDVR	DS	,01346‡		
01851					730	FLTONE		,01851‡		
01882					740	FZEREC		,01882‡		
05818					750	IZENEO		* &2 ‡		
00011	<u>·</u>			0.5	1 = 0		DEND	- 427		
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00000*	PDQ FORT	RAN SUE	ROUTIN	IE RELO	CATOR	11/63	3				
01020	ARITH	00160								· · · · · · · · · · · · · · · · · · ·	
01860	BARF	00350									
01890	BARF2	00460		***************************************			,				
01780	BIN		00170	00180	00190	00200	00250	00350	00360	00460	00470
		00520	00560	00600	00610	00620	00660	00750	00895	00980	01790
01930	BCX									00820	
01730	DOX		0087C		09320	00010	30000				300.0
00690	CONST	00570		00070							
00740	CONZ	00370									
01620	DNB	01050	00470								•
00290	FUNCT	00240	00510								
			00.10								
01340	HERE	01040	00/10			····					
00250	HO	00260		01050	01/70	01/00	01/00	01/00	01500	01500	01510
01950	I									01500	01210
							01650			01010	01220
01790	IMAGE				01110	01150	01180	01190	01200	01210	01220
	-		01260								
01920	INCRE	00060	00070	00360	00470	00620	00690	00700	00820	00870	
01840	LODER				00440	00540	00550	00700	00710	00940	00960
00670	LOOP	08800	00900	00910							
C181C	MARK	00650									
00780	MOD	00680									
01750	M1	01290									
01760	M2	01440									
01770	M3	01460									
01370	OVER	01340									
01280	Q	01470									
00510	RELC		00480	00760	00930	01000					
00390	SINE	00210									
00020	START	01960									
00930	SUBR	00740									
01120	TD		01110	01130	01140	01150	01160	01230	01240		
00590	XX	00530	QIIIO	01130	01110		91100	01230	<u> </u>		·····
00650	ŶŶM	00590									
	ZERO	01020			 		 				
01650			00120								
01480	CHGLD1		00130								
01580	CHGLD2		00140								
00150	ENDSUB	00270	00630								00540
01830								^^ ^		00000	
02000	LODER 2				00310	00320	00330	00440	00450	00530	00540
	LODER2		00260 00690		00310	00320	00330	00440	00450	00530	00540
	LODER 2				00310	00320	00330	00440	00450	00530	00540
01990*			C0690	00950	00310	00320	00330	00440	00450	00530	00540
01990*	S	00590	C0690	00950	00310	00320	00330	00440	00450	00530	00540
01990*	COS	00590	C0690	00950	00310	00320	00330	00440	00450	00530	00540
01990* 02020 02640	COS CTAB	00590 SINE ANI 02020	C0690	00950 NE		00320	00330	00440	00450	00530	00540
01990* 02020 02640 02670	COS CTAB ENDD	00590 SINE ANI 02020 02460	C0690	00950 NE		00320	00330	00440	00450	00530	00540
01990* 02020 02640 02670 02680	COS CTAB ENDD ER9	00590 SINE ANI 02020 02460 02130	C0690 D C0SI	00950 NE 02530							
01990* 02020 02640 02670	COS CTAB ENDD	00590 SINE ANI 02020 02460 02130 02020	C0690 D C0SI C2510 02060	00950 NE 02530 02090	02120	02140	02160	02170	02190	02200	02210
01990* 02020 02640 02670 02680	COS CTAB ENDD ER9	00590 SINE ANI 02020 02460 02130 02020 02220	C0690 D C0SI C2510 02060 02230	00950 NE 02530 02090 02230	02120 02240	02140 02250	02160 02260	021 7 0 02260	02190 02270	02200 02280	02210 02290
01990* 02020 02640 02670 02680	COS CTAB ENDD ER9	00590 SINE ANI 02020 02460 02130 02020 02220 02300	C0690 C0SI C2510 02060 02230 02310	00950 NE 02530 02090 02230 02310	02120 02240 02320	02140 02250 02340	02160 02260 02350	02170 02260 02350	02190 02270 02360	02200 02280 02370	02210 02290
01990* 02020 02640 02670 02680 02650	COS CTAB ENDD ER9 FAC	00590 SINE ANI 02020 02460 02130 02020 02220 02300 02400	C0690 C0SI C2510 C2510 C2060 C2230 C2310 C2430	00950 NE 02530 02090 02230 02310 02440	02120 02240 02320	02140 02250 02340	02160 02260	02170 02260 02350	02190 02270 02360	02200 02280 02370	02210 02290
01990* 02020 02640 02670 02680 02650	COS CTAB ENDD ER9 FAC	02020 02020 02460 02130 02020 02300 02400 02240	02060 02230 02430 02270	00950 NE 02530 02090 02230 02310 02440	02120 02240 02320	02140 02250 02340	02160 02260 02350	02170 02260 02350	02190 02270 02360	02200 02280 02370	02210 02290
01990* 02020 02640 02670 02680 02650	COS CTAB ENDD ER9 FAC	02020 02020 02460 02130 02020 02300 02400 02240 02040	02060 02230 02430 02270	00950 NE 02530 02090 02230 02310 02440	02120 02240 02320	02140 02250 02340	02160 02260 02350	02170 02260 02350	02190 02270 02360	02200 02280 02370	02210 02290
01990* 02020 02640 02670 02680 02650	COS CTAB ENDD ER9 FAC	02020 C2460 02130 02020 C2220 02300 02400 02240 C2040 C2330	02060 02230 02430 02270	00950 NE 02530 02090 02230 02310 02440	02120 02240 02320 02450	02140 02250 02340	02160 02260 02350	02170 02260 02350	02190 02270 02360	02200 02280 02370	02210 02290
01990* 02020 02640 02670 02680 02650	COS CTAB ENDD ER9 FAC	02020 C2460 02130 02020 C2220 02300 02400 02240 C2040 C2330	02060 02230 02430 02270	00950 NE 02530 02090 02230 02310 02440	02120 02240 02320 02450	02140 02250 02340	02160 02260 02350	02170 02260 02350	02190 02270 02360	02200 02280 02370	02210 02290
01990* 02020 02640 02670 02680 02650 02710 02060 02620	COS CTAB ENDD ER9 FAC	00590 SINE ANI 02020 02460 02130 02020 02300 02400 02240 02040 02030 02030	02051 02060 02230 02310 02430 02270 02070 02290	00950 NE 02530 02090 02230 02310 02440	02120 02240 02320 02450	02140 02250 02340	02160 02260 02350	02170 02260 02350	02190 02270 02360	02200 02280 02370	02210 02290

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02560	SIN25	02200		and the second second second second							Santana (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
02630	STAB	02060									•
02690	FLTONE	02520									
02700	FZEREC	02440									
02660	ZERFAC	02420									
		02.120									
02750*	E	XPCNEN1	TAL TO) BASE	E						
03270	ENDD	C320 0		*							
03260	ERO	03230									
03280	ER9	03230									
03240	ETAB	02780		************	· · · · · · · · · · · · · · · · · · ·						
02780	EXP	02.00									
03080	EXP1	03010	03020	03030	03040	03090	03100	03110	03140		
03220	EXP2	02800	0 3 0 2 0	03030	0.50.10	03070	3,100	.,			
03250	FAC	02780	02790	02810	02830	02860	02870	02880	02890	02930	02940
032.20	1 40			03010							
03300	LCG10	02900									
03320	LOG2	03020									
03310	ONE	03000									
03290	FZEREC	02840									
03330	SETUNE	02820									
											
03370*		IATURAL	LOGAR	ITHM		· · · · · · · · · · · · · · · · · · ·		 			
03870	ELOG	03420							·		
03990	ENDD	03820	03850								
03920	ERLNM	<u>03890</u>									
04000	ER9	03870									
03960	FAC									03600	
									03750	03760	03110
02070			03810	03820	03830	03840	03840	63930			
03970	FILL	03760									
03400	LOG LOGR	03940 03740				····					
038CC 0357C	LOGR LOG1		02550	03560	03610	03630	03660	03650	03660		
04020	LOG10	03440	037.10	000.00	0.3/110	03030	07040	03030	03000		
04020	LOGII	03560		4							
04050	LOG2	03510		······································							
03950	LTAB	03400				•					
04030	CNE	03680									
04010	FZEREC	03730									
03980	ZERFAC	03720								· · · · · · · · · · · · · · · · · · ·	
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04090*		SQUARE I	<u> </u>								
04500	ENDD	04380									
04480	FAC	04120								04230	
	,		04250	04270	04310	04330	04330	04340	04350	04360	04376
		04420					•				
04400	NSQR	04150									
04470	GTAB	04130						,			
04450	SQERM	04410									
	SQRT	04460	_								
04120	SQRT1	04280	04300	04320	04360						
04120 04250											
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04520	FZEREC	04180										
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01170									· · · · · · · · · · · · · · · · · · ·	····		
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04560*	A	BSOLUTE	: VALUI	:							,	
04590	ABS											
04610	ATAB	04590										
04630	ENDD	04600										
04620	FAC	04590		·								
04670*	D	ROP RIG	HT HAI	F %TF	RUNCAT	ION¤						
04700	DRH								· · · · · · · · · · · · · · · · · · ·			<u> </u>
04850	DTAB	0470 0										
04880	ENDD	04770	04840									
04860	FAC		04760	04870								
04770	OUT	04730										
04870	TFAC			04740	04760	04800	04820					
04830	TR			04810							 	
04890	FZEREC	04710	3.500	J. J. J. V	5,510							_
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04930#	A	RCTANGE	NT SU	BROUTI	NE		· · · · · · · · · · · · · · · · · · ·		······································			
04960	ATAN			· · · · · · · · · · · · · · · · · · ·				 	· · · · · · · · · · · · · · · · · · ·			····
05570	ATANT	05160					,		i.			
	ATANI	05010	05520									
05060				05240						•		
05190	ATAN2			05260								
05390	ATAN3			05180	•	•						_
05470	ATAN4	04970	05420									
05710	BB	05430	05000	05/00	05/30	05440	05400				,	`
05700	ENDD					05440		05100	05120	05010	05370	
05690	FAC					05100						
		05250	05270	05300	05310	05320	05330	05340	05340	05350	05360	
				05390	05400	05410	05450	05460	05480	05490	05500	
		05500										
05720	FDVR	05020	05040									
05680	TTAB	04960				·	·					
05550	ATANC1	05350										
05560	ATANC2	05320				 				·		
05540	ATANP2	05450							•		•	
05530	ATAN1B	05030										
05730	FLTONE	05020		**	•							
05740	FZEREC	05380	05410				·		<u>. </u>			
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	LOCTN	СP	P/L	Q	PG LN	LABEL			AND REMARK		AGE 1
					00 000	₩ PD	Q FOR	TRAN SUBRO	UTINES 1	1/63 F	REE FORM A
					00 010	*		#			· · · · · · · · · · · · · · · · · · ·
					00 020	*		J. W. HOLM	ES, THE CO	OPER-B	ESSEMER CORP.
					00 030	*		D. A. JARD	INE, DU PO	NT OF	CANADA LTD. #
					00 040	*		F. H. MASK	IELL, PENN:	SYLVAN	IA TRANSFORM
					00.050	*			MCGR	AW EDI	SON CORP.+
					00 060	*		‡			
					00 070	*		#			
					00 080	*			DD AND SUB	TRACT#	
					00 090	#		‡			
	00401				00 100		DORG	401#			
	00409		Ω		00 110	DIVDIG		9	,01122334	4 1	
			10		00 120	DIVDIG	DS	10#	JOILE		
	00419	٠.		00410		560			- 1		SUBTRACT#
·	00420		00479		00 130	FSB	TF	FAD-1	, *-1	* *	SUDIKACIT
	00432		00479		00 140		SF	FAD-1#			DEVEDEE 610
	00444		00400		00 150	·····	BNF	FAD	,FSB-1	7,7	REVERSE SIGN
	00456		00479		00 160		CF	FAD-1#			
	00468		00000		00 170		NOP	<u> </u>			1
	00480	15	00695	00005	00 175	FAD	TDM	ADCT2-36	, 5	7 7	ROUNDING DIC
	00492	24	00052	00471	00 180		C	FAC-8	,FAD-9‡		
	00504	46	00732	01200	00 190		BE	FAD1-36#			
	00516	46	00564	01300	00 200		BNL	*&48 *			
	00528		00419		00 210		TF	FSB-1	,FAC	77	LARGER OPERA
	00540		00060		00 220		TF	FAC	,FAD-1#		
	00552		00479		00 230		TF	FAD-1	,FSB-1#		
	00564		00471		00 240		S	FAD-9	FAC-8	,,	COMPUTE RIGI
	00576		00471		00 250	····· ·· ·····························	CM	FAD-9	, 8	,101	
	00518		01052		00 260		BL	ENDD	•	,,,	EXIT ON SHIF
D —	00600		00779		00 270	• • • • • • • • • • • • • • • • • • • •	TF	FAD1&11	,ADCT2#	77	EXIT ON SHIEL
									ADCIZE		
	00612		00775		00 280		SF	FAD1&7# FAD1&11	,FAD-9#		
	00624		00779		00 290		A				
	00636		00479		00 300		LD	FAD-1	,FAD-1#		
	00648		00684		00 310		BNF	*&36	,99‡		
	00660		00678		00 320		TF	*818	,FAD1&11+		
	00672		00000		00 330		SF	‡			
	00684		00061		00 340		TDM	FAC&1	,5‡		
	00696	28	00060	00060	00 350		LD	FAC	,FAC+		
	00708	44	00732	00099	00 360		BNF	* &24	, 99‡		
	00720	32	00001	00480	00 370		SF	FAC&1	,FAD	,5‡	
	00731				00 380	ADCT2	DS		,*‡		
	00732	26	00419	00052	00 390		TF	FSB-1	,FAC-8	,,	SAVE EXPONE
	00744		00052		00 400		TEM	FAC-8	, 0	,10,	
	00756		C0471		00 410		TDM	FAD-9	,0	,11‡	
	00768		-0060		00 420	FAD1	A	FAC	FAD-1	,27,	
	00780		00803		00 430	1701	TF	*623	,FAD1&6#	, _ , ,	
	00792		00099		00 440		TD	99	,‡		
			00779		00 450		TF	FAD1611	,ADCT1+		
	00804								ADCITE		÷
	00816		00948		00 460		BE	ZERFAC#	EAD 1	, 5‡	
	00828	3.3	00000	00479	00 470		CF	FAC	,FAD-1	, 34	
	00839		00015	00050	00 480	ADCT1	DS	E402	,## FAC 0		DDANCH FOR
	00840		00968		00 490		BD	FAD2	,FAC-8	, 7 7	BRANCH FOR
	00852		01004		00 500		BD	ENDD-48	,FAC-7	7.7	NORMALIZING
	00864		00061		00 510		TR	FAC&1	,FILL#		
	CC876	31	00053	00054	00 520		TR	FAC-7	,FAC-6‡		
	88800		00419		00 530		SM	FSB-1	, 1	,10,	
	00900	46	00852	01300	00 540		BNN	*-48	7	,,	TEST FOR UNI

LCCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE		<u>O</u>
00911		1		00	550	. *	DC	1	• a	, *+		
00910					560	FILL	DS		, *-1	FILL C	IGIT	MAY
00912	34	POPOP	00102		570	ERO		70707	,	,246‡		
00919		1			580		DC	1	, a , +-4+			
00924	39	00939	00100	00	590	-	WATY	UNFLM#				
00936		00000		00	600		NOP	#				
00938				00	610		DORG	* -9 ‡			•	
00939		5		00	620	UNFLM	DAC	5	,UFLO@#			
00948	26	00060	01873		630	ZERFAC	TF	FAC	,FZEREC-9	,, ZE	RO F	RESUL
00960	49	01052	00000		640		В	ENDD#	•			
00968		·			650			*-3‡				
00968		00060			660	FAD2	AM	FAC	, 5	,10,	ROUN	
00980		00060			670		TF	FAC	,FAC-1		HIFT	FOR
00992		00419			680		AM	FSB-1	,1	,10±		
01004		00052			690		TF	FAC-8	•FSB-1+			
01016		01062			700		BV	ER9‡				
01028		01052			710		BNF	#824	, 99‡			
01040		00060			720		SF	FAC+				
01052	49	01060	00000		730	ENDD	В	#83 *				
01060					740			*- 3‡				
01060	42	00000	00000		750	BB	BB	#				
01062					760			*- 9‡				
01062		00060			770	ER9	TF	FAC.	,FNINES-2#			
01074		00000			780		RCTY	#				
01086		01101			790			OVFLM#				
01098	41	00000	00000	00			NOP	‡				
01100					810	OVELM		*-9*	,OFLOa+			—L
01101	40	5	00000		820	OVFLM	DAC	5 CNDD 244	PUFLUMF			
01110	49	01028	00000		830 840	*	В	ENDD-24#				
					850	*		#				
					860	*		FLOATING I	WIN TIDIV±			
					870	*		‡	TOLITICIT			
01126		5			880		DS	5 ‡				
01128	32	00053	00000		890	FMP	SF	FAC-7#				
01140		01120			900		SF	FMP-8‡				
01152		00060			910		M	FAC.FMP-	I,, MULTIPL	Y‡		
01164		00948			920		BE	ZERFAC+				
01176		01256			930		BD	FMP1,84,	. TEST LE	ADING DI	GIT	ŧ
		00093			940		MA	93,5,,		RODUCT#		
01188		01268			950		SD		84,, BRANCH		/‡	
01188 01200	43				240		SF	85#				
01200			00000	0.0	950							
	32	00085 00052			960 970		SM.		,10, ADJUST	EXPONENT	[‡	
01200 01212	32 12	00085	COON1	CO		· · · · · · · · · · · · · · · · · · ·			,10, ADJUST	EXPONENT	[‡	
01200 01212 01224	32 12 26	00085 00052	000N1 00092	00	970		SM TF B	FAC-8,51 FAC,92‡ FMP2‡	,10, ADJUST	EXPONENT	Γ‡	
01200 01212 01224 01236	32 12 26	00085 00052 00060	000N1 00092	00 00	970 980		SM TF B	FAC-8,51 FAC,92‡ FMP2‡ #-3‡			Γ‡	
01200 01212 01224 01236 01248 01256 01256	32 12 26 49	00085 00052 00060 01292	COON1 COO92 CCOOO	00 00 00 01	970 980 990	FMP1	SM TF B	FAC-8,51 FAC,92‡ FMP2‡ #-3‡ 92,5,,	ROUND P	RODUCT#	-	
01200 01212 01224 01236 01248 01256	32 12 26 49 11	00085 00052 00060 01292 00092 00052	000N1 00092 00000 -0005 000N0	00 00 00 01 01	970 980 990 000 010 020	FMP1	SM TF B DORG AM SM	FAC-8,51 FAC,92‡ FMP2‡ #-3‡ 92,5,, FAC-8,50		RODUCT#	-	
01200 01212 01224 01236 01248 01256 01256	32 12 26 49 11	00085 00052 00060 01292	000N1 00092 00000 -0005 000N0	00 00 00 01 01	970 980 990 000 010	FMP1	SM TF B DORG AM	FAC-8,51 FAC,92‡ FMP2‡ #-3‡ 92,5,, FAC-8,50 FAC,91‡	ROUND P	RODUCT# EXPONEN	[‡	
01200 01212 01224 01236 01248 01256 01256	32 12 26 49 11 12 26	00085 00052 00060 01292 00092 00052	C00N1 C0092 CC000 -00C5 C00N0 00091	00 00 01 01 01 01	970 980 990 000 010 020 030 040	FMP1	SM TF B DORG AM SM	FAC-8,51 FAC,92‡ FMP2‡ #-3‡ 92,5,, FAC-8,50 FAC,91‡ FAC-8,FM	ROUND P	RODUCT# EXPONEN	[‡	+
01200 01212 01224 01236 01248 01256 01256 01268 01280 01292 01304	32 12 26 49 11 12 26 21 33	00085 00052 00060 01292 00092 00052 00060 00052 00053	C00N1 C0092 C0000 -00C5 C00N0 C0091 C1119 C0000	00 00 01 01 01 01	970 980 990 000 010 020 030		SM TF B DORG AM SM TF A CF	FAC-8,51 FAC,92‡ FMP2‡ #-3‡ 92,5,, FAC-8,50 FAC,91‡ FAC-8,FM FAC-7‡	ROUND P	RODUCT# EXPONEN	[‡	ŧ
01200 01212 01224 01236 01248 01256 01256 01268 01280 01292	32 12 26 49 11 12 26 21 33 46	00085 00052 00060 01292 00092 00052 00060 00052 00053	C00N1 C0092 C0000 -00C5 C00N0 C0091 O1119 C0000 C1300	00 00 01 01 01 01 01	970 980 990 000 010 020 030 040		SM TF B DORG AM SM TF	FAC-8,51 FAC,92‡ FMP2‡ *-3‡ 92,5,, FAC-8,50 FAC,91‡ FAC-8,FM FAC-7‡ ENDD-36‡	ROUND P	RODUCT# EXPONEN	[‡	+
01200 01212 01224 01236 01248 01256 01256 01268 01280 01292 01304	32 12 26 49 11 12 26 21 33 46	00085 00052 00060 01292 00092 00052 00060 00052 00053	C00N1 C0092 C0000 -00C5 C00N0 C0091 O1119 C0000 C1300	00 00 01 01 01 01 01 01 01	970 980 990 000 010 020 030 040 050 060 070		SM TF B DORG AM SM TF A CF	FAC-8,51 FAC,92‡ FMP2‡ *-3‡ 92,5,, FAC-8,50 FAC,91‡ FAC-8,FM FAC-7‡ ENDD-36‡ ERG‡	ROUND P	RODUCT# EXPONEN	[‡	‡
01200 01212 01224 01236 01248 01256 01256 01268 01280 01292 01304	32 12 26 49 11 12 26 21 33 46	00085 00052 00060 01292 00092 00052 00060 00052 00053	C00N1 C0092 C0000 -00C5 C00N0 C0091 O1119 C0000 C1300	00 00 01 01 01 01 01 01 01	970 980 990 000 010 020 030 040 050		SM TF B DORG AM SM TF A CF	FAC-8,51 FAC,92‡ FMP2‡ *-3‡ 92,5,, FAC-8,50 FAC,91‡ FAC-8,FM FAC-7‡ ENDD-36‡	ROUND P	RODUCT# EXPONEN	[‡	•

LOCTN	CP	P/L	Q	PG		LABEL	MNEM	OPERANDS AND	REMARKS PAGE 3
					100	*	F		DE AND REVERSE DIVIDE+
					110	*		‡	
01344		5			120		DS	5.‡	
01346	26	01381	00060	01	130	FDVR	TF		INTERCHANGE OPERANDS +
01358	26	00060	C1345	01	140		TF	FAC, FDVR-1+	
01370	41	00000	00000		150		NOP	‡	
01382		00053			160	FDV	SF	FAC-7‡	
01394		01461			170	, , ,	TD		DV-8,,ROUNDING+
01406		00091			180		LD	91,FAC#	
01418		01438			190		BC	*&20,FDV-8‡	
		01062			200		В	ER9#	,
01430	47	01002	CCOOC						
01438		0127/	20000		210			*−3 ‡	
01438		01374			220		SF	FDV-3#	•
01450		00092			230	DVRND	TD	92 ,4	
01462		00091			240		D	91,FDV-1,,	DIVIDE#
01474		00948			250		BE	ZERFAC#	
01486	25	00099	00091		260		TD	99,91,,	SAVE SIGN#
01498	22	00052	C1373	01	270		S	FAC-8, FDV-9,	SUBTRACT EXPONENTS+
01510	43	01554	00083	01	280		BD	FDV1,83#	
01522	32	00084	ccoco	01	290		SF	84,,,	LEADING ZERO#
01534		01119			300		TFM		SET EXP ADJUST#
01546		01280			310		В	FMP2-12#	*
01554		012.00	00000		320			* -3 ‡	
01554	26	00060	nnnan		330	FDV1	TF	FAC,90,,	NON-ZERO LEADING DIGIT
					340	IIAT	TFM	EMD-3.51.10.	SET EXP ADJUST#
01566		01119							GO TO TEST AND END#
01578	49	01292	00000		350		<u>B</u>	FMP2,,,	GU TU TEST AND END+
					360	*		‡	
					370	*		<u> </u>	
		•			.380	# *	ł	FIXED POINT A	RITHMETIC#
					390	*		<u> </u>	
01590	22	00060	01589		400	FXS	S	FAC, *-1#	
01602	49	01626	00000	01	410		<u>B</u>	* €24 	
01614	21	00060	C1613	01	420	FXA	Α	FAC, *-1*	
01626	46	C1638	C1400	01	430		ВУ	* 812 	
01638		00000			440		88	‡	
01644					450			*- 5 ‡	
01644	23	00060	C1643		460	FXM	M	FAC, *-1+	
			00000		470	1 777	SF	96‡	
01656			00099		480		TF	FAC, 99‡	
01668								-	
	42	00000	00000				BB		
01686	<u>.</u>				500			*-5#	
01686		01721			510	FXDR	TF	FXD-1,FAC#	
01698		00060			52C		TF	FAC, *-13*	e.
01710		00000			530			<u> </u>	
01722	14	01721	0-00-		540	FXD	CM	*-1,,811 [‡]	
01734	46	01784	01200	01	550		BE	FXD1+	
01746		00099			560		LD	99,FAC‡	
01758		00096			570		D	96,FXD-1#	
01770		00060			580	· · · · · · · · · · · · · · · · · · ·	TF	FAC,95#	
01782		00000			590		BB	#	
	74	00000	00000		600			* - 9‡	
01784	~~	00000	00000			EVOT			
01784		00099			610	FXD1	1D	99,FAC‡	
		00060			620		TEM	FAC,9999,8#	e .
01796		$0.16 \mathrm{D} \mathrm{A}$	00000	0.1	630		В	ER9812 ,	, 5‡
01808	49	010P4	00000						
	49	01074	00000	01	640 650		DORG	*-3 ‡	

LCC.	TN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 4
					01	660	*		Anno 1980 - Park Maria (1981) I≢
						670	*	·····	NEGATION ROUTINE#
	·					680	#		+
018			01040			690	RVSGN	BNF	ENDD-12, FAC+
018			00060			700		CF	FAC‡
018		42	00.000	00000		710		BB	
018	42					720		DORG	+ −9 +
						730	*		‡
				·		740 750	*		# SYMBOLS AND CONSTANTS#
						760	*		+
000	60		 	 		770	FAC	DS	,60‡
199						780	LTAB	DS	,19930
199				 		790	ETAB	DS	,19950‡
018			10			800	FLTONE		10,51100000004
018			12			810	FNINES		12,9999999999
018	82		19			820	FZEREC	DC	19,0+
018	93		11			830	LOG10	DC	11,2302585093‡
019	07		14			840	ONE	DC	14,100000000000000
019			5			850		DC	5,99995‡
019			3			860	· · · · · · · · · · · · · · · · · · ·	DC	3,0‡
019			6			870		DC	6,999500‡
019			2			880		DC	2,0‡
019			7			890		DC	7,9950331‡
019			1			900	1 0011	DC	1,0\$
019			8			910	LOG11	DC	8,95310180‡
019			10	_,		920 930	LOG2 FIXER	DC DC	9,693147181 + 10,5810000000+
019	שכ		10			940	# FIXER	UC	‡
						950	*		<u>+</u>
						960	*		EXPONENTIATION ROUTINES#
						970	*		‡
019	62		4			980		DS	4‡
019		16		0-000		990	FAXIN	TFM	FAXI-1,0,8, A***-NU\$
019				01963	02	000		S	FAXI-1, #-13#
019				00000		010	- A	NOP	*
020	00		01999			020	FAXI	CM	*-1,0,811, A**N*
020				01200		030		BE	SETONE#
020				01100		040		BP	* &56
020				00000		050		CF	FAXI-1+
020				-2080		060		TFM	ENDD&6, #&32, SET RETURN ADDRESS#
020				01851		070		TF	FDVR-1,FLTONE+
020		49	01346	00000		080		B	FDVR‡
020			01107	00040		090			#-3 ‡
020				00060		100		TF	FMP-14FAC+ ENDD&6,*&12,,SET RETURN ADDRESS+
020				-2104		110		TFM SM	FAXI-1,1,10#
021 021				000-1 01100		120		BP BP	FMP#
021				-1060		140		TFM	ENDD&6, BB,, RESTORE COMMON EXIT
021				00000		150		BB	‡
U Z 1				01873		160	FAXBN	TF	FAXB-1,FZEREC-9‡
						170		S	*623,*-13 [‡]
021		22	02187	02151	- 02	110			
021 021	64		02187					NOP	#
021	64 76	41	00000	00060	02	180 190	FAXB		

														·
O LO	OCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND I	REMARKS	<u> </u>	PAGE	5
02	2188	26	19929	00060		190	FAXB	TF	LTAB-1,FA					
02	2200	16	01058	-2220	02	200		TFM	ENDDE6. +	120, , S	SET RET	TURN	ADDRE	:35#
02	2212	49	19930	00000		210		В	LTAB#					
02	2220				02	220		DORG	*-3 					
02	220	26	01127	02187	02	230		TF	FMP-1,FA)	(B-1+				
02	2232	16	01058	-2252	02	240		TFM	ENDD&6	20.	SET RET	TURN	ADDRE	:22#
02	2244	49	01128	00000	02	250		В	FMP+					
02	2252				02	260		DORG	+-3 ‡					
	2252	16	01058	-1060	02	270		TFM	ENDD&6.	38. F	RESTORE	E COP	4MON E	*XIT
	2264	26	19949	00060	02	280		TF	ETAB-1,FA					
02	2276		199NO		02	290		В	ETAB,,5#					
	2284				02	300		DURG	#-3#		·····			····
	2284	26	00060	01851		310	SETONE	TF	FAC, FLTON	YE#				
	2296		00000			320	· ·	BB		•		* O4	F	
	2298	_				330			-9	-				
						340			*					· · · · · · · · · · · · · · · · · · ·
						350			*					
						360	*	1	FIX A FLOA	ATING	POINT	NUME	3ER≢	
						370	*	·	‡					
02	2298	26	00479	01958		380	FIX	TF	FAD-1,FIX	(ER#				
	2310		00695			385		TDM	-	•0#				
	2322		01058			390		TFM	ENDD&6,	•	ET RF1	URN	ADDRF	\$\$\$
	2334		00492			400	•	BNF	FAD&12	,FAC				
	2346		-0479			410		SF	FAD-1	,90		.27	711#	
	2357	32	-0413	NOJU		420	TRFXC	DS.	TAU I	, **		,		
	2358	MO	00M92	00000		430	11/1 //	B	FADE12			, 04	<u> </u>	
	2366	77	JUNTE			440		_	#-3 ‡	•		y 07		
	2366	14	01058	-1060		450		TFM	ENDD&6, E	RR C	FSTOPE	CO	MON F	YITE
	2378		-0057			460		SF	FAC-3	,514			711 +	
	2389	JE		HITUE		470	TRFLC	DS	1.70 3	,**		74	, 4 A T	
	2390	M 2	00000	00000		480	INILU	BB		,		, 01	Ŀ	
	2392	nZ.	00000	30000		490			4-9	. .		701	<u>r </u>	
04	Lファム					500		DUNU	*					
	··· ·					510			<u> </u>					
						520		•	FLOAT A FI	IXED I	MINT A	u imb i	F Q ±	
						530			±	LALV I	27111	TOTOE	<u> </u>	
o.	2392	14	-0419	OOONS		540	FLOAT	TFM	FSB-1,58,	210±				
	2404		00056			550	FLUAT	TFM	FAC-4#	, 4107				
	2416		00060			560		CM	FAC, 0, 81	1 ±		•		
						570		CF	FAC-3#	LT	lo,			
	2428 2440			00000		580		В	FAD1612#					
				0K539		590	STOP	TFM	WATYE6	, SMI	4	, 84		*
	2452		00000				3105	RCTY		9 3 MI	₹ .	9 01	-	
	2464	34		OUTUZ		600	1	DC			······································	3. *-		
	2471	20	1	00100		610	MATY		1	•		- 9 m	77	
	2476		00000			620	WATY	WATY		1.1 # *	LACAT			
	2488			02479		630		BNF	#&36		1763+			
	2500		02470			640		TF	WATY-6	,511	3P-1+		<u> </u>	
	2512			00100		650			WATY-9#					
	2524	48		00000		660	F 14 14	H	+	6-81	12		_	
	2529		4			670	EMM	DAC	4	, EN	Jdy	*-	-6#	
_	2536	42	00000	00000		680		BB	#	<u></u>	···	 		
					02	690	*****		*-9*		30 01	-		
0:	2538										3-			
0; 0;	2539		6			700	SMM	DAC	6		3P 3#			
0			02464	02463 -2529	02	700 710 720	SMM END	BT TFM	WATY-12 WATY&6		「Y-13‡	.7		

LOCTN	ОP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	6 ()
02586	26	02604	02585	02	750	TRACE	TF	*818	,*- 1‡		
02598	26	00000	00060	02	7.60		TF		,FAC+		
02610		02620			770			*£10	, 42‡		·
02622	15	02585	00000		780		TOM	TRACE-1	, ‡		
02633		1			790		DC	1	<u>,</u>	, * ‡	
02634		00000			800		RCTY				
02646		02581			810			TRACE-5#			
02658		03061			820		TFM	PINEMT	TRFLC-5#		
02670		02694			830		BNF	*824	,FAC-3#		
02682		03061			840		TEM	PINEMT	,TRFXC-5#		
02694		03913			850		TFM	LAST-1,FA		·	
02706		03165			860		TR	MARK-2	,RTPAR&44#		
02718	49	02978	00000		870		B	WATYE8241			
02726					880 8 9 0	# TAID		- *=>∓ TPUT ROUTI	NEC+		
02726	24	02761	02061		900	LTPAR	TF	BOX, PINEN			
02728		03026			910	LIFAN	BNF	LOOK ,LTF			
02750		03376			920		CF	LTPARX#	ANAT		
02750	33	0.5510	CCOCO		930	вох	DS	LIFANAT .			
02762	25	03168	03165		940	607	TD	MARKE1	,MARK-2#		
02774		03506			950		BNF	READCK, MA			
C2786		03026			960		B	LOOK#	TICKET		-
02798		03167			970	RACD	TEM	MARK,5,10) ±		
02810		03061			980	KHOD	TF	PINEMT, *-			
02822		02858			990		В	*836 	23,		
02834		03165			000	RATY	TR	MARK-2	,POST&32#	· · · · · · · · · · · · · · · · · · ·	
02846		03061			010	,,,,,	TF	PINEMT, #-			$\mathbf{\Omega}$
02858		03159			020		TDM	MARK1,7#			U
02870		03002			030		В	LOOK-24#			
02882		03167			040	WACD	TFM	MARK, 4, 10)‡		
02894		03061		03	050		TF	PINEMT, *-	-13‡		
02906		02978		03	060		В	# €72‡			
02918	31	03165	03594	0.3	070	WATYSC	ŢR	MARK-2	,RTPAR&20#		
02930	26	03061	02917	03	080		TF	PINEMT	,*-13		A
02942	49	02978	00000	03	090		3	* &36 *			
02954	31	03165	03226	0.3	100	WATYE	TR	MARK-2	,POST&32#		
02966	26	03061	02953		110		TF	PINFMT, *-			
02978	15	03159	COOOR		120		TCM	MARK1,9,		*	
02990		03128			130		TEM	NEXT, INOU			
03002		03376			140		TFM	LTPARX, PO		•	
03014	31	00061	01880		150		ŢR	FACE1	,FZEREC-2#		
					160	*					. =
					170				PHERS FORMAT	SPECIFIC	ATTUNS
03026			OCOLM		180	FOCK	TEM	STOWX,34	,1011#		
03038			-0005		190		AM TE	*823,54			
03050	26	03250	00000		200	D. T. W. T. T.	TF	BRNCH&6#			
03061		00511			210	PINEMT		,*‡	UCHC/3		
03062	44	03244	03250		220	- T.F	BNF	BRNCH, BRI		1: T C I 0	/ m V 1
02071	,,	02100	02150		230	* 11			SPEC. OTHER	MIDE &	, u X t
03074			03159		240		BNF	*834,MARI			
03086			03374		250		BNF SF	TRAC, LAS			
03098			00042		260	SOTTE		RTPARX,4			
C311C			03167		270 280	WRITE	BNF TFM	INDUT, 1			
ררוכח	10	CDIU3	000-0				DC		υ τ		
03122 03133		1		U 3	290		3 1 2	1,0,**			_

) _	LCCTN	CP	P/L	G	PG LN	LABEL	MNEM	OPERANDS	AND REMARKS	S PAGE	7
	03128				03 300	NEXT	DS	WRITE818		-	
	03134	44	03158	C3168	C3 310	READ	BNF	*&24	,MARK&1#		
	C3146		-CO-N		C3 320	Proposition and the second second	RCTY		,	,25689,	P IS 10
	03156		1		03 330		DC	1,0,*-1#			
_	03147				03 340	FIXFLG		, *-10‡			
	03158	39	05103	00000	C3 35C		WA	INOUT#			
_	03167				03 36C	MARK	DS		T/OUTPUT DE		
_	03159				03 370	MARK1	DS		UT OR OUTPL	JT‡	
_	03170		03168		03 330	CRCE	TOM	MARK&1	, ‡		
_	03182		03266		03 39C		BNF	ACCEPT, MA			_
	03194		03128		03 400	POST	TEM	NEXT, INDU			
	03206		C3026		03 410		BNF	LCCK,RTPA			
	03218	33	03375	010	. 03 420		CF	RTPARX	,10	,8910‡	
	03229		1		03 430		DC.	1,0,**		-	
	03230		02774		03 440	·	BNF	LTPARE48	,LASTX#		
_	03242	42	00000	00000	03 450	- -	BU	#			
	03244				03 460			#-9#			
	03244	48	00000	00000	03 470	BRNCH	В	,,1‡			
_	03251				03 480			*-4*			
	03251		1		03 490		DC	1,0#	•		_
-	03252		03914		03 500	TRAC	BNF	LAST, MARK	-1#		
	03264	42	00000	00000	03 510		88	#	— 	·.	
_	03266				03 520	100		#-9#	<u>.</u>		
	03266		03026		03 530	ACCEPT		LOOK, MARK	· ‡		
	03278		03026		03 540			LOOK#			
	03290	49	03134	00000	03 550		В	READ#			
) -	03298				03 560			*-3‡	DV 3 :		
•	03298		03506		03 570	SLASH	BNF	READCK, MA	KKI‡		
_	03310		03181		03 580		TDM	CRCD&11	<u>, ,</u>	,11‡	· · · · · · · · · · · · · · · · · · ·
	03322		03128		03 590		CM	NEXT, INOU	11.		
~	03334		03110		03 600		BNE	WRITE#			
	03346		03378		03 610	y-,	BNF	*832, MARK	· 干 .		
	03358		00000		03 620	FLAGS	RCTY				
	03370	49	03194	00000	03 630		Bonc	PGST#			
_	03378		0.3-	-02	03 640			#-3#			
	03378		03396		03 650	CARD	TF	* &18, NEXT	+		
-	03390		00000		03 660		TFM	••10 +	,		
	03402		03396		03 670		AM CN	*-6,2,10 [‡])+	
	03414		03396		03 680		CM.	*-18 *-36+	,INDUTE160	U T	
	03426		03390		03 690		BL ∧⊪	*-36 [‡]	\ +		
-	03438		03473		03 700		AM T₽	#835,1,10			
	03450		05256		03 710		TR	INCUT&153			
-	03462		05261		03 720		TOM	INDUTE158			
	03474		05259		03 730		TD To	INCUT&156			
-	03486		05257		03 740		<u>T0</u> B	READE24±	7 - 1) f		
	03498	49	03158	00000	03 750			READ&24+			*
-	03506	1. *	0.2150	021/7	03 760	READCK		*-3‡ READ&24	,MARK+		
	03506		03158		03 770	KEAULK					
-	03518		03548		03 780		TF AM	*&30,PINF *&18.5±	• 2 F T		
	03530		03548		03 790		AM CM	*818,5‡			
-	03542		00000		03 800		CM BNE	,SLASH+			
	03554		03134		03 810		BNE	READ#			
-	03566	49	03358	00000	03 820	·	DORG	SLASH&60#			
	03574	2.1	Mana =	0271	03 830	ртово		#-3# DINEMT_RO	 1¥±		
	C3574	26	03061	02/61	03 840	RTPAR	TF	PINFMT, BC	384	MARKET CONTRACTOR OF THE PERSON OF THE PERSO	***************************************
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LOCTN	GP		Q		LN	LABEL		OPERANDS AND REMARKS PAGE 8
03586	32	03375	00-10		850		SF	RTPARX ,10 ,910‡
03597	,,	1	02272		860		DC	1, @, # +
03598 03610		03622 03374			870 880		BNF SF	#&24,NUMBX# LASTX ,10 ,10#
C3621	32	1	00000		890		DC	1,2,**
03622	44	03194	03159		900		BNF	POST,MARK1+
03634		03181			910		TD	CRCD611 ,MARK-2+
03646		03322			920		В	SLASH&24‡
03654				03	930		DORG	* −3 ‡
					940			HTYPE AND XTYPE#
03654		03821			950	XTYPE	TFM	TF&11, +&23+
03666		03358			960		CF	HTYPEX,,10#
03678		03774			970		BNF	SKIP, STOWX+
03690		03061			980	HTYPE	AM	PINFMT, 2, 10 +
03762		03725			990		TF	#623,PINFMT#
03714 03726		03889			000	LOOP	TF BNF	COUNT \$ SKIP, HTYPEX \$
		03061			020	LUUP	AM	PINFMT, 2, 10#
03738 03750		03830			030		BNF	HR, MARK1
03762		03821			040		TF	TFE11, PINFMT+
03774		03854			050	SKIP	BNF	XR, MARK1 #
03786		03816			060	J., 2.	TF	#630,NEXT#
C3798		03128			070		AM	NEXT,2,10#
03810	26	00000	ccoco		080	TF	TF	#
03822	49	03866	00000		090		В	TIEH#
03830					100		DORG	* −3‡
08880		03848			110	HR	TF	#&18,PINFMT#
03842		00000			120		TF	, INOUT =
03854		05102			130	XR	TR	INOUT-1, INOUTE1#
03866		03889			140	TIEH	SM	COUNT,1,10#
03878	46	03726	01100		150	COUNT	BP DS	LOOP#
03889 03890	1.1.	04262	02250		160 170	COUNT	BNF	stow, stowx =
03902		03026			180		В	LOOK#
		03020	00000		190	* Δ11		INSTRUCTIONS BTM TO NUMBER#
					200			ST IN LIST, ‡
			··········		210			TO LAST\$
03914	26	03937	03913	04	220	LAST	TF	NUMBER-1 ,*-1*
03926		03374		04	230		SF	LASTX#
03938		03373			240	NUMBER	CF	NUMBX,42‡
03950		03948			250		BNF	*-2,BRNCH&6‡
<u> </u>		03250			260		CF	BRNCH&6‡
03974	32	03247	00000		270		SF	ERNCH&3‡
03985	3.3	(22/0	00000		280	EXP	DS	9##
03986	32	03249	00000		290		SF	BRNCH65‡
03997		1			300 310	SAVE	DC DS	1,0,#4
03998	21	03359	03147		320	JAYE	TR	SIGN-2,FIXFLG+
04010		05316			330	· · · · · · · · · · · · · · · · · · ·	BNF	INPUT, MARK1 +
34010	. 17	0,010	0.54.55		340	*THE		WING ROUTINES PREPARE#
					350			ATA FOR OUTPUT#
04022	26	04045	03937		360		TF	#823,NUMBER-1#
04034		00060			370	····	TF	FAC,9‡
· ·				04	38C	* OUT	PUT D	,e,F, OR I TYPE NUMERIC#
04046		04853			390	DEFI	TFM	A&11 ,FAC-4+
04058	14	03246	OCORR	04	400		CM	BRNCH&2,99,1011#

 LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMAR	RKS PAGE	9
04070		04746		04	410		BE	ITYPE#			
04082	14	03246	OCORM	04	420		CM	BRNCH&2	, 94	,1011#	
04094	46	04898	01200	04	430		BE	DTYPE#			
04106	46	04570	C1100		440	- 610	BH	AOUT#	DD E CAVE	EVDONENT+	
 04110	~ ~ /	02001	00053		450	* 510				EXPONENT#	
04118		03996			460		TF	SAVE	,FAC-8‡	10+	
 04130		03996			470		SM BNF	*&24	,50 ,FAC+	,10‡	
04142		04166			480				•		
 04154		03361			490 500		TFM	SIGN, 20, 3			
04166		03246			510		CM BL	FTYPE#	75 10114		
 04178		04966 03362			520	ETYPE	SF	ETYPEX#			
04190					530	EITPE		EXP,,10‡			
 04202		03985			540		TFM TF	COUNT, BR	ACHEV+		
04214		03889									
 04226		03889			550 560		S SM	COUNT, BRI			
04238		03889				TIC	BP	XTYPE#	10+	•	
 04250	40	03654	01100		570 580	TIE * ROU			OLCITS IN	OUTPUT BAND#	
0/2/2		04310	02264		590	STOW	BNF	*&48,DTY		DOTFOT BANDY	
 04262 04274		04304			600	310#	TF	*&30,NEX			
					610		AM	NEXT, 2, 10			
 04286		03128			620		TF	,SIGN#	J+		
04298		00000			630		SM	EXP,1,10			
 04310		03985			640		BN	HOHO#	T		
04322		04514			650		TDM	FAC-8	, 7	,11‡	
 04334		00052			660	· · · · · · · · · · · · · · · · · · ·	BNF	N50,DTYPI		7117	
04346					670	NEOV	CF	FAC-7#	EA+		
 04358		00053 04458			680	N50X	BNF	B ,ITYPI	C V +		
04370							TF	SIGN	•FAC-7#		
 04382		03361			690 700		TR	FAC-7	,FAC-6#		
04394		00053			710		TDM	FAC&2#	* LAC-0+		
 04406		00062					В	STOWE12#			
04418	49	04274	00000		720						
 04426		0/270	00053		730	NEO		#-3‡	,FAC-7#		
04426		04370			740	N50	BNF	N50X&12	-	,11‡	
 04438		00052			750		TDM	FAC-8 N50X‡	•5	111+	
04450	49	04358	00000		780		B				
 04458		0/202	02265		790 800	В	BNF	*-3* N50X&24,	ETVOEVA		
04458	44	04382	03303							CYD CMALL+	
 04470	1 1	02004	000 1		810 820	*. 1 W3	AM	SAVE,1,1	N DEC. IF	EXP SMALL#	
04470		03996						N50X&24+			
 04482		04382 03361			830 840		BP TFM	SIGN, 70,			
04494		04274			850		В	STOW&12#			
 04506 04514	47	U7214	00000		860			*-3‡			
04514	1. 1.	04662	03343		870	ноно	BNF	ISETYP, I	TYPFY±		
 04514		03363			880	HOPU	CF	ITYPEX#	IIILAT		
04538		03361			890		TFM	SIGN, 3, 1	Λ±		
		03985			900		TF	EXP, BRNC			
04550		04262			910		В	STOW#	HAUT		
 04562	47	04202	00000		920			*-3‡			
04570	22	00051	00000			ACUT		#-3# FAC-9#			
 04570		00051 04612			930	ADUT	SF TF	*£30	,NEXT#		
04582		03128			950		AM	NEXT	, NEXI+	, 10‡	**
04594					960	······································	TF	NEAL	,FAC-8‡	7107	
 04606	76	00000	ひんりゃつ	1:1.	U.A.						

	LOCTN	CP	P/L	Q	D.C.	LN	LABEL	MNEM	OPERANDS	AND REMA	ARKS.	PAG	F 1	0
	04630		03248			980	LADEL	SM	BRNCH&4	• 1		10#		<u> </u>
	04642		04570			990		BNE	AGUT#	7	1	, 10,		
	04654		03026			000		В	LOOK#					
	04662	7,	03020	00000		010		_	*-3 ‡					
	04002					020	*FXIT		SETYP AFT	R PASSI	OF I	TYPE.	#	
						030			ASS E,F,D		· ·	.,,	•	
	04662	44	03026	03362		040			LOOK, ETY					
	04002	77	03020	03302		050			EXPONENT#	CAT			•	
	04674	31	00057	03993		060		TR	FAC-3, SA	VF-3#	,			
	04686		04853			070		TEM	A&11	FAC-54	ŧ			
	04698		03248			080		TFM	BRNCH&4.					
	04710		04740			090	•	TF	*&30,NEX					
	04722		03128			100		AM	NEXT, 2, 1					
	04734		00000			110		TFM	,45,10‡					
	דכודט		00000	000112		120	# NOW		R I TYPE	TO FILE A	WAY	EXPONE	NT#	
	04746	16	03363	0-000		130	ITYPE	TEM	SIGNE2	,0000				1000
	04758		04782			140		BNF	*824,FAC					
	04770		03361			150		TFM	SIGN, 20,					
	04782		00053			160	**	TR	FAC-7	,FAC-3	<u> </u>			
	04794		03985			170		TFM	EXP,4,10	-	-		**	
	04806		04854			180		BD	*&48	,FAC-7	<u> </u>			
	04818		00053			190		TR	FAC-7	,FAC-6				
	04830	12	03985	C00-1		200		SM	EXP,1,10					
	04842		04806			210	A	BNR	* −36	FAC-6	ŧ			
	04854		03889			220		TF	COUNT, BR					
	04866		03889			230		SM	COUNT,1,					
	04878		03889			240		S	COUNT, EX					
	04890		04250			250		B	TIE#					
•	C4898		0.200	00000		260			*-3‡					U
	04898	33	03364	00000		270	DTYPE	CF	DTYPEX#					_
	04910		03985			280		TF	EXP, BRNC	H84#	*	<u> </u>		
	04922		00062			290		TF	FAC&2	,FAC+				
	04934		04262			300		BD	STOW, BRN					
	04946		00053			310		TR	FAC-7	,FAC-1	ŧ			
	04958		04262			320		В	STOW#	,,,,,				
	04966	1,	01202	00000		330			*-3 					
	04966	26	03985	03996		340	FTYPE	TF	EXP, SAVE	±				
	04978		05002			350		BNF	*824,SAV					
-	04990		03985			360		TFM	EXP, 10#		 -			
	05002		03889			370		TF	COUNT, BR					
	05014		03889			380		SM	COUNT,2,					
	05026		03889			390		S	COUNT, BR					
	05038		03889			400	***************************************	S	CCUNT, EX					
	05050		05082			410		BN	ERROR#	•				
	05062		03365			420		SF	FTYPEX#					·
	05074		04250			430		В	TIE#					
	05082		01230	00000		440			* -3 +	·		· ,		
	0,000					450	* CHA		O E TYPE#					
	05082	16	03250	8-000		460	ERROR	TFM	BRNCH&6,			-		
	05094			00000		470	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	В	ETYPE#					
	05102		<u> </u>			480			∗ −3‡			·	,	
	05102		1			490	INOUT	DAC	1,0#					
	05315		212			500		DS	212#		•			
						515	# ROL		FOR INPU	T OF NUM	ERICA	L DATA	+	
	05316	26	00078	01875		525	INPUT	TF	TFAC	, FZERE				
	05328	16	06354	-0070	- 05	535		TFM	DIGITEG	,TFAC-	8‡			_

LOCTN	СР	P/L	Q	PG	LN	LABEL	MNEM	CPERANDS :	AND REMARKS	S PAGE	11
0534C		05925			545	EXPLK	TEM	SETFLG&1,	41,10#		
05352	16	0-060	00000		555		TEM	FAC, 3#		~	
05364		03246			565	·	CM	BRNCH&2,9	4,1011#		
05376	47	05704	01300		575		8L	NUM#			
05388		05564			585		BNE	AIN#			
C54CC	16	C5502	-5412		595		TEM		, #£12 ‡		
					605	* CON		TYPE NUM			
05412		00051			615		TR	FAC-9	,FAC-8‡		
05424		00060			625		TD	FAC, INCUT			
05436		05103			635		CM	INCUT,70,			
05448		05102			645		TR	INOUT-1,I	NOUT&1#		
05460		05484			655		BNL	*&24 ‡			
05472		00060			665		SF	FAC#			
05484	12	03248	000-1		675		SM	BRNCH&4,1	, 10‡		
05496		05412			685		BNE	*-84			
05508		00051			695		SF	FAC-9#			
05520		05537			705	COM	TF	*&17,NUMB	ER-2#		
05532		00009			715		TF	9,FAC+			
05544	49	03014	00000		725		В	LCOK-12#			
05552					735			*-3 			
05552		05102			745		TR	INOUT-1	,INOUT&1+		
05564	14	05103	C00-0		755	AIN	CM	INOUT	,	,10‡	
05576		05552			765		ΒĒ	*-24 ‡			
05588	15	05502	-5612		775		TEM	COM-18	,AIN&48‡		
05600		03248			785		TEM	BRNCH&4	,5	,10#	
05612	31	00051	00053	05	7 95		T₹	FAC-9	,FAC-7#		
. 05624		00060			805		TF	FAC	, INOUT #		
05636	33	00059	00000		815		CF	FAC-1#			
05648		05102			825		TR		,INOUT&1+		
05660	49	05484	C0000		835		В	COM-36#			
05668					845			#-3#			
					855	# ROU			ND I TYPE#		
05668		05103			865		CM	INOUT, 3, 1	0#		
05680		05764			875		BE	TMBMWC#			
05692			05104		885		TR	INOUT-1,I			
05704	14	05103	000K0		895	NUM	C M	INOUT, 20,	10‡		
05716			01300		905		BL	*-48‡			
05728		05764			915		ВН	* &36 *			
05740		05102			925		TR	INCUT-1, I			
05752			000L2		935		TEM	SETFLG&1			
05764		03246			945	TMBMWC		BRNCH&2,9			
05776		03246			955		TEM	BRNCH&2,9	9,1011‡		
05788		05980			965	·	BNE	EFTYPE#			
05800		05823			975	ITYPER		#823, INOU			
05312		05912			985		BH	SETFLG-12		············	
05824		00056			995		TR	FAC-4, FAC			
05836		00060			005		TD	FAC, INOUT		·	
05848			05104		015		TR	INCUT-1, I			
0586C		05880			025		<u> ED</u>	FIL, FAC-4	<u> </u>		
05872	49	05800	00000		035		B -	ITYPER#			
05880					045			*-3‡			
05880		06449			055	FIL		INERM#			
05892		00060			065		TEM	FAC,9999,	8‡		
05904	49	05800	00000		075		В	ITYPER#			
05912				-06	085		DORG	*-3‡			

			:					00504400	AND DEMARKS	DACE	1.2	
LCCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	UPERANDS	AND REMARKS	PAGE	12	- C
05912		00057			095		SF	FAC-3‡	·.			
05924		00060			105	SETFLG		FAC+	nev.			
.05936		06084			115		BNF	EXPFD, ITY	PEX#			
05948	49	05520	00000		125		B	COM#				
05956					135 145	w C Al		#-3# TYPE ROUTII	NEC+			
05054	<i>i. i.</i>	04272	02347		155	DT .	BNF	SE, SEY+	NEST			
05956 05968		06372 05102			165	M	TR	INDUT-1,II	MOUTE1±			
05980		06252			175	EFTYPE		C, INOUT #	1001417			
05992		06221			185	DONE	TF	SET&1, SET	FI GE1#			
06004		06028			195	DONE	BNF	*824.SEY#	Loui			
06016		03365			205	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S	EX, BRNCH&	6#			
06028		06051			215		Č	*623, INOU				
06040		06108			225		BNE	EXPFD&24.				
06052		03363			235		CF	ITYPEX#				\
06064		05102			245		TR	INOUT-1, II	#13TUON			
06076		05340			255		В	EXPLK#				
06084	7.7	03310	00000		265			#-3#				
06084	32	00059	00000		275	EXPFD	SF	FAC-1#				
06096		03365			285	EXITE	A .	EX,FAC+				
06108		00070			295		TF	TFAC-8	,EX‡			
06120		06196			305		BV	FLOV#	,			
06132		06164			315		BD	*&32	,TFAC-7+	•		
06144		00078			325		TF	TFAC	,FZEREC-9#			
06156		06220			335		В	SET#				•
06164	17	UULLU	00000		345			*-3 	· · · · · · · · · · · · · · · · · · ·			
06164	44	06220	00070		355		BNF	SET	,TFAC-8‡			
06176		00078			365		TF	TFAC	,FZEREC-9#			-()
06188		06208			375		В	* &20 	,			
06196		00200			385			#-3#				
06196	26	00078	01861		395	FLOV	TF	TFAC	FNINES-2#			
06208		06449			405			INERM#				
06220		00078			415	SET	SF	TFAC+				
06232		00060			425		TF	FAC	,TFAC+	.		
06244		05520			435		В	COM# 1				
06252					445			*-3 				
06252	14	05103	000P0		455	C	CM	INCUT,70,	10‡			
06264		06392			465		BL	DE#				
06276		06300			475		BE	*&24 ‡	, ,			
06288		03362			485	-	SF	DTBX#				
06300		05956			495	DTB	BNF	DT,DTBX#	-			
06312		06354			505		CM	DIGITE6	,TFAC	,10‡		
06324		06360			515		BE	* &36 	•			
06336		06354			525		AM	DIGITE6,1	, 10‡			
06348		00000			535	DIGIT	TD	, INQUT #	•			
06360		05968			545		BNF	M,SEY#				
06372		03365			555	SE	S	EX,SEY#				
06384		05968			565		В	M‡				
06392		-			575			+ −3‡				
06392		05103	000-3		585	DE	CM	INOUT, 3, 1	0#			
06404		05992			595		BNE	DONE#				
06416		05992			605	1 .	BNF	DONE, SEY+				
06428		03367			615		TDM	SEY,1‡				
06440			00000		625		В	M‡				
06447			-		635		DORG	*-4 ‡				_
						1			, - , - , - , - , - , - , - , - , - , -	,		

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LCCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND	REMA	RKS		PAGE	· ·	13
				06	645	* VAR	rous (FLAGS AND	BINS	5‡					
 03358				06	655	HTYPEX	DS	,FLAGS#							
03359				06	665	STOWX	DS	,FLAGS&1#	:						
 03361				06	675	SIGN	DS	,FLAGS&3+							
03362				06	685	ETYPEX	DS	,FLAGS&4#	:						
 03362				06	695	DTBX	DS	,FLAGS&4+	:						
03363				06	705	ITYPEX	DS	,FLAGS&5#	:						
 03364				06	715	DTYPEX		,FLAGS&6#							
03365				06	7 25	FTYPEX	DS	,FLAGS&7#	:						
 033.65				06	735	EX	DS	,FLAGSE7+							
03367				06	745	SEY	DS	,FLAGS&9+	:						
03373				06	755	NUMBX	DS	,FLAGS&15	#						
03374				06	765	LASTX	DS	FLAGS&16	‡						
 03375				06	775	RTPARX	DS	,FLAGS&17	‡						
03376				. 06	785	LTPARX	DS	,FLAGS&18	‡						
 06449		5		06	795	INERM	DAC	5		INa+					
00078				06	805	TFAC	DS		,78	+					
05190				06	815		DCRG	#783TUONI							
05190	2.5	02190	00400	06	825		TD	FAXB&2	,40	0+					
05202	25	02214	00400	06	835		TD	FAXB&26	,40	0#					
05214	25	02266	00400		845		TD	FAXB&78	,40	0+					
05226			00400	06	855		TD	FAXB&90	,40	0#					
05238	49	00000	00000		865		В	# .							
00000				06	875		DEND	‡							
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	*0000	PDQ FORT			iES	L1/63 F	REE FO	ORM A	AD .				
	05210	Δ	04390	05070									
	00480	ADCT1	00450					*					
	00380	ADCT2	00175		02385			·					
	0 575 5	AIN	05585					*					
	04930	ACUT	04440	04990									
	04800	В	04680										
	00750	88		02270	02450								
.(02930	BOX	02900										
	03470	BRNCH				04250							
				_		04980				05300	05370	05390	
		· · · · · · · · · · · · · · · · · · ·	05460	05565	05675	05785	05945	05955	06205				
1	06455	C	06175	•									
	03650	CARD	03270						······································				
. 1	05705	COM				06125							
	04160	COUNT	04000	04140	04540	04550	04560	05220	05230	05240	05370	05380	
			05390	05400									
	03380	CRCD	03580	03910									
	06585	DE	06465	7.00									
	04390	DEFI											
	06535	DIGIT	05535	06505	06525								
	06185	DONE	06595	06605									
	06155	DT	06495			1							
	06495	DTB											
	06695	DTBX	06485	06495	,								
	05270	DTYPE	04430										
	01230	DVRND	01170										
	02670	EMM	02720							•			
	02720	END	02730										
	00730	ENDD		00500	00640	00830	01060	01690	02060	02110	02140	02200	
				02270									
	00570	ERO		03710									
	05460	ERROR.				***							
	00770	ER9		01200	01630								
	01790	ETAB		02290									
	04520	ETYPE	05470										
	06735	EX		06285	06295	06555							
	04280	EXP				05170	05200	05240	05280	05340	05360	05400	
	06275	EXPED		06225									
	05545	EXPLK	06255										
	01770	FAC	00180	00210	00220	00240	00340	00350	00350	00370	00390	00400	
	021.0	• //•				00500							
			00670	00690	00720	00770	00890	00910	00970	00980	01020	01030	
			01040	01050	01130	01140	01160	01180	01270	01330	01400	01420	
			01460	01480	01510	01520	01560	01580	01610	01620	01690	01700	
						02310							
			02830	02850	03150	04370	04390	04460	04480	04650	04670	04690	
						04740							
			05070	05140	05160	05160	05180	05190	05190	05210	05290	05290	
						05615							
		*	05795	05805	05815	05995	05995	06005	06025	06065	06095	06105	
				06285			02,77	0.000	U-0622	0.000	5.077		
		FAD				00160	00180	00220	00230	00240	00250	00290	
	00175	EAU				00410							
	00175		00200	00200			00720	00710			CETIO	02700	
									00450	02580			
	00420	FAD1	. 00190	00270		00290			00450	02580			
	00420 00660	FAD1 FAD2	00190 00490	00270	00280	00290	00320	00430		02580			
	00420 00660 02190	FAD1 FAD2 FAXB	00190 00490	00270	00280		00320	00430		02580			•
	00420 00660 02190 02160	FAD1 FAD2 FAXB FAXBN	00190 00490 02160	002 7 0 022 3 0	06825	00290	00320 06845	00430		02580			
	00420 00660 02190	FAD1 FAD2 FAXB	00190 00490 02160	002 7 0 022 3 0	06825	00290	00320 06845	00430		02580			

	01160	FDV	01130	01170	01190	01220	01240	01270				
	01130	FDVR	01140	02070	02080							
	01330	FDV1	01280									
	06055	FIL	06025									
	00560	FILL	00510									
	02380	FIX										
	01930	FIXER	02380			•						
_	03620	FLAGS				06685	06695	06705	06715	06725	06735	06745
			06755	06765	06775	06785						
_	02540	FLOAT									·	
	06395	FLOV	06305									
	00890	FMP			01040	01300	01340	02100	02130	02230	02250	
	01010	FMP1	00930									
_	01040	FMP2		01310								
	00130	FSB		00210	00230	00390	00530	00580	00690	02540		
_	05340	FTYPE	04510									
	01420	FXA										
_	01540	FXD	01510	01570								
	01510	FXDR	0.555									
_	01610	FXD1	01550									
	01460	FXM										
_	01400	FXS	0///0									
	04870	HCHO	04640								•	
-	04110	HR	04030									
	03980	HTYPE	06055	064.05								
_	<u>06795</u> 05490	INERM INDUT			02250	03400	03500	02400	02710	03720	02720	037/0
	02490	INCO				05625						
-						05865						
						06165						
-				06585			00102	00117	00213	00242	00243	001.2.2
	05525	INPUT	04330	00769	00010							
-	05130	ITYPE	04410									
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	01910	LCG11										
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												00390		
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4403622033733203374000J##
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051000532600060051033300059000003105102051044905484014051030 \pm 1 - 1 - 5616 - 5676 - 24093
00-34605764012003105102051041405103000K047056680130046057640 \pm 1-1-5676-5736-24094
11003105102051041605925000L21403246000RR1603246000RR47059800*1-1-5736-5796-24095
12002405823051034605912011P031000560005725000600510331051020 \neq 1-1-5796-5856-24096
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51034706108012 M533033630000031051020510449053400320005900000 \pm 1 - 1 - 6036 - 6096 - 24100
210336500060260007003365460619601400430616400071260007801873 $1-1-6096-6156-24101
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						030	#			DINE, DU PO			
						040	*			KIELL, PENN			
						050	*					SON CORP.	
						060	*		‡				
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	00420		00479			130	FSE	TF	FAD-1	, * -1	7 7	SUBTRAC	1 #
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	00444		00480			150		BNF CF	FAD	,FSB-1	, ,	REVERSE	2101
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	00480		00695			175	FAD	TDM	ADCT2-36	, 5	,,	ROUNDIN	e ore
	00492		00052			130	IAU	C	FAC-3	,FAD-9#	77	KOOKOIK	0 010
	00504		00732			190		BE	FAD1-36#	, (AB			
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	00528		00419			210		TF	FSB-1	,FAC	7 7	LARGER	OPERA
	0054C		00060			220		TF	FAC	,FAD-1#			
	00552		00479			230		TF	FAD-1	,FSB-1#			
	00564			00052		240		S	FAD-9	,FAC-8	, ,	COMPUTE	RIGH
	00576	14	00471	000-0		250		CM	FAD-9	, 8	,101	1#	
	CC588	47	01052	01300	00	250		BL	ENDD	7	7 7	EXIT ON	HIF
	00600		00779			270		TF	FAD1811	,ADCT2+			
	00612		00775			280		SF	FAD187#				
	00624		00779			290	· · · · · · · · · · · · · · · · · · ·	A	FAD1811	,FAD-9‡			
	00636			00479		300		LD	FAD-1	,FAD-1‡			
	00648			00099		310		BNF	*836	,99#			
	00660			00779		320		TF	*£18	,FAD1811=	F		
	00672	32	00000	00000		330		Sf	FAC&1	, 5‡			····
	00684			00005		340		TDM	FACGI	,FAC+			
	00696 00708			00099		350 360		LD BNF	#824	,99‡			
	00720			00480		370		SF	FAC&1	,FAD	,5‡		1
	00731	26	00001	00+00		380	ADCT2		1 4001	• • • • • • • • • • • • • • • • • • •	727		:
	00732	26	00419	00052		390	H0012	TF	FSB-1	,FAC-8	, ,	SAVE EX	PONEN
	00732			000-0		400		TFM	FAC-8	,0	,10,		DFIE
	00756			0000-		410		TDM	FAD-9	,0	,11+		
	CC768			-0479		420	FAD1	A	FAC	,FAD-1	,27,	ADD W	ITH S
	00780			00774		430		TF	*623	,FAD1&6‡			
	00792			00000	00		,	TD	99	, ‡			
	00804			00839		450		TF	FAD1811	,ADCT1#			
	00816			0.1200		460		BE	ZERFAC#				
	00828	33	00000	00479		470		CF	FAC	,FAD-1	<u>,5</u> ‡		
	00839					480	ADCT1			,*+			
	00840			00052		490		BD	FAD2	,FAC-8	,,	BRANCH	
	00852			00053		500		BD To	ENDD-48	FAC-7	7 7	NORMALI	LING
	00864			00910		510		TR	FAC&I	FILL#			
	00876			00054		520 530		TR SM	FAC-7 FSB-1	•FAC-6‡ •1	,10,	LUDDE	CT EX
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	LCCTN	СP	P/L	Q	PĜ	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE 2
	00900		00852			540		BNN	*-48	7	,, TEST FOR UND
	00911		1		00	550		DC	1	, a	,* ‡
	00910				00	560	FILL	DS		, *-1	FILL DIGIT MAY B
	00912	34	POPOP	00102		570	ERC		70707	7	, 246‡
	00919		1			580		DC	1	, a , *-4‡	
	00924		00939			590			UNFLM#		
	00936	41	00000	00000		600		NOP	#		
	00938					610			*-9 *		
	00939		5			620	UNFLM	DAC	5	•UFLOa‡	
	00948		00060			630	ZERFAC		FAC	,FZEREC-9	,, ZERO RESULT+
	00960	49	01052	00000		640		B	ENDD#		
	00968			222 5		650	5153		*-3*		10 00000
	00968		00060			660	FAD2	AM	FAC	,5	,10, ROUND#
	00980		00060			670	V-10-11	TF	FAC	,FAC-1	,, SHIFT FOR CA
	00992		00419			083		AM	FSB-1	, l	,10 ‡
	01004		00052			690		TF	FAC-8 ER9#	,FSB-1#	
	01016		01062			700		BV BNF	*824	,99‡	
	01028 01040		01052	00000		710 720		SF	FAC‡	9 7 7 7	
	01040			00000		730	ENDD	В	±88±	•	
	01050	77	UICOU	00000		74C	LINDD		*-3‡		
	0106C	42	00000	00000		7 50	BB	BE	* J+		
	01062	72	00000	00000		760	00		*-9#		
	01062	26	00060	01861		770	ER9	TF	FAC	FNINES-2#	
******	01074			00102		780		RCTY	#		
	01086			00100		790			CVFLM#	•	
	01098			CCCCO		800		NCP	#		
	01100					810			*-9		
	01101		.5			820	OVELM	DAC	5	, OFLO0+	
	01110	49	01028	00000		830		В	ENDD-24#		
						840	*		‡		
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						860	*	1	FLOATING I	MULTIPLY#	
	····					870	*		‡		
	01126		5			880		DS	5‡		
	01128			00000		890	FMP	SF	FAC-7#		
	01140			CC000		900		SF	FMP-8‡		
-	01152			01127		910		M	FAC, FMP-	1,, MULTIPL	Y‡
	01164			01200		920		BE	ZERFAC#		
	01176			00084		930		BD	FMP1,84,		ADING DIGIT#
	01188			-0005		940		MA	93,5,,		RODUCT#
	01200			00084		950		BD SE		84,, BRANCH	IF CARRY#
	01212			00000		960		SF	85#	10 AD HICT	EVDONENTA
	01224			000N1		970		SM	FAC,92#	,10, ADJUST	EXPUNENTY
	01236			00092		980		TF			
	01248	49	01292	00000		990		BOBC	FMP2+ +-3+		
	01256 01256	11	00002	-0005		010	FMP1	AM	92,5,,	ROUND P	RODUCT#
-	01256			CCONO		020	FMFI	SM	FAC-8,50		EXPONENT #
	01286			00091		030		TF	FAC,91#	,10, A03031	EXT GIVEN I T
				01119		040	FMP2	A		P-9. COMBIN	E EXPONENTS#
	01292 01304			00000		050	1 111 2	CF	FAC-7+	JAA COURTH	ENIURENIUT
	01316			01300		060		BNN	ENDD-36#		
	01328			00000		070		В	ERO#		
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								ΟŦ	, v	9 ‡		В			200		00000				1430	
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	LCCTN	CP	P/L	Q	PG 01	LN 650	LABEL #	MNEM	OPERANDS AND REMARKS PAGE 4
						660	* .		* *
						670	*		NEGATION ROUTINE#
						080		,	#
	01816	44	01040	00060		690	RVSGN	BNF	ENDD-12,FAC+
	01828		00060			700		CF	FAC‡
	01840		00000			710		BE	+
	01842					720			# - 9
						730	*		#
						740	*		‡
			`			750	¥		SYMBOLS AND CONSTANTS#
					01	760	*		‡
	00060				01	770	FAC	DS	,60‡
	19930				01	780	LTAB	DS	, 19930‡
	19950				01	790	ETAB	DS	,19950‡
	01851		10			800	FLTONE		10,5110000000‡
	01863		12			810	FNINES		12,99999999999
	01882		19			820	FZEREC		19,0‡
	01893		11			830	LOG10	DC	11,2302585093‡
	01907		14			840	ONE	DC	14,1000000000000000000
	01912		5			850		DC	5,99995‡
	01915		3			860		DC	3,0‡
	01921		6			870		DC	6,999500‡
	01923		2			880		DC	2,0‡
	01930		7			890		DC	7,9950331‡
	01931		1			900		DC	1,0‡
	01939		8			910	LOG11	DC	8,95310180‡
)	01948		9	· · · · · · · · · · · · · · · · · · ·		920	LOG2	DC	9,693147181‡
	01958		10			930	FIXER	DC	10,5810000000+
						940 950	*		<u> </u>
						960	*	3	EXPONENTIATION ROUTINES#
						97C	*		‡
	01962		4			980	-	DS	4#
	01964	16	01999	0-000		990	FAXIN	TFM	FAXI-1,0,8, A**2-NU\$
	01976		01999			000	1 60 110	S	FAXI-1, #-13#
	01988		00000			010		NOP	‡
	02000		01999			020	FAXI	CM	*-1,0,811, A**N‡
	02012		02284			030		BE	SETONE#
	02024		02080			040		BP	*£56‡
	02036		01999			050	·	CF	FAXI-1‡
	02048		01058			060		TEM	ENDD&6, *&32, SET RETURN ADDRESS\$
	02060		01345			070		TF	FDVR-1,FLTONE+
	02072		01346			080		В	FDVR‡
	02080					090		DURG	* -3
	02080		01127			100		TF	FMP-1,FAC+
	02092	16	01058	-2104	02	110		TFM	ENDD&6, #&12, , SET RETURN ADDRESS#
	02104		01999			120		SM	FAXI-1,1,10#
	02116	46	01128	01100		130		BP	FMP‡
	02128		01058			140		TFM	ENDD&6, BB,, RESTORE COMMON EXIT#
	02140		00000			150		ВВ	‡
		26	02187			160	FAXBN	TF	FAXB-1,FZEREC-9+
	02152				0.2	170		S	* &23 ,* -13 ‡
	02164	22	02187						
,	02164 02176	22 41	00000	00000	02	180		NOP	<u> </u>
	02164	22 41 26		00060	02 02		FAXE	NOP TF TFM	‡ LTAB-1,FAC‡ ENDD&6,*&20,,SET RETURN ADDRESS‡

LOCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 5
02188	26	19929	00060	02	190	FAXB	TF	LTAB-1.FAC+
02200		01058		02	200		TFM	ENDD&6, *&20, SET RETURN ADDRESS#
02212	49	19930	00000		210		В	LTAB#
02220					220		DORG	#-3‡
02220	26	01127	02187		230		TF	FMP-1,FAXB-1+
02232		01058			240		TFM	ENDD&6, *&20, SET RETURN ADDRESS\$
02244		01128			250		В	FMP#
02252		<u> </u>			260			*-3 *
02252	16	01058	-1060		270		TFM	ENDD&6, BB,, RESTORE COMMON EXIT+
02264		19949			280		TF	ETAB-1, FAC+
02276		199NO			290		В	ETAB,,5‡
02284	7,	177110	00000		300			#-3‡
02284	26	00060	01951		310	SETONE		FAC, FLTONE+
02296			00000		320	SETUNE	BB	
02298	nz.	00000	00000		330			, ,∪∓ 9‡
02230					340		DUNG	#
								* · · · · · · · · · · · · · · · · · · ·
····					350 360			FIX A FLOATING POINT NUMBER#
						•		
20000		00130	01050		370	*		‡
02298		00479			380	FIX	TF	FAD-1,FIXER+
02310			00000		385		TDM	ADCT2-36 ,0+
02322			-2366		390		TFM	ENDD&6. =&44. SET RETURN ADDRESS#
02334			00060		400		BNF	FAD&12 ,FAC+
02346	32	-0479	R050-		410		SF	FAD-1 ,90500 ,2711‡
02357					420	TRFXC	DS	,++
02358	M9	00M92	00000		430		В	FAD&12 , ,04#
02366					440	1-11-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		# - 3 ‡
02366			-1060		450		TFM	ENDD&6, BB,, RESTORE COMMON EXIT#
02378	32	-0057	N140Q		460		SF	FAC-3 ,51408 ,2711*
02389				02	470	TRFLC	DS	, **
02390	M2	00000	00000	02	480		BB	, ,0‡
02392				02	490		DORG	*-9 ‡
				02	500			• • • • • • • • • • • • • • • • • • •
				02	510			*
				02	520	*	1	FLOAT A FIXED POINT NUMBER+
				02	530	*		*
02392	16	-0419	000N8	02	540	FLOAT	TFM	FSB-1,58,210‡
02404			-0000	02	550		TFM	FAC-4+
02416			0-00-		560		CM	FAC,0,811‡
02428			00000		570		CF	FAC-3‡
02440			00000		580		В	FAD1&12#
02452			OK539		590	STOP	TFM	WATYE6 ,SMM ,8+
02464		-	00102		600	0.0.	RCTY	
02471		1			610		DC	1 , 3,=-4‡
02476	30	_	00100		620	WATY	WATY	
02488			02479		630	*****	BNF	*£36 ,WATYE3+
02500			02451		640		TF	WATY-6 .STOP-1#
02512			00100		650		WNTY	
02512			00000		660	-	H	######################################
	70	4			670	EMM	DAC	4 ,ENDa, +-6+
02529	42				680	EMM		
02536	- 42	00000	00000				BB	* ; *- 9*
02538					690	CMM		
02539		6			700	SMM	DAC	6 ,STOP @#
02550			02463		710	ENG	BT	WATY-12 , WATY-13‡
02562	16	02482	-2529	02	720	END	TFM	WATYE6 ,EMM ,7#

					The second section is a second or a second s						
)	LCCTN	OР	P/L	Q	PG LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	6
	02586	26	02604	02585	02 750	TRACE	TF	*818	, #-l#		
	02598	2.6	00000	00060	02 760		TF		,FAC+		
	02610	47	02620	00442	02 770		BNC4	#£10	,42‡		
	02622	15	02585	00000	02 780		TDM	TRACE-1	,		
_	02633		1		02 790		DC	1	, 7	0,*+	
	02634	34	00000	00102	02 800	u	RCTY	‡			
_	02646	38	02581	00100	02 810		WNTY	TRACE-5#			
	02658	16	03061	-2384	02 820		TFM	PINEMT	,TRFLC-5‡		•
_	02670	44	02694	00057	02 830		BNF	* &24	,FAC-3‡		
	02582	16	03061	-2352	02 840		TFM	PINFMT	,TRFXC-5#		
_	02694	16	03913	-0060	02 850		TFM	LAST-1,F	AC#		
	02706	31	03165	03618	02 860		TR	MARK-2	RTPAR&44+		
_	02718	49	02978	00000	02 870		В	WATYE824			
_	02726				02 880			*- 3 			
					02 890	# INP	UT/OU	TPUT ROUT	INES#		
_	02726	26	02761	03061	02 900	LTPAR	TF	BOX, PINF			
	02738	44	03026	03376	02 910		BNF	LOOK ,LT	PARX#		
_	02750	33	03376	00000	02 920		CF	LTPARX#			
	02761				02 930	BOX	DS	, * 			
_	02762		C3168		02 940		TD	MARK&1	,MARK-2‡		
	02774	44	03506	03159	02 95C		BNF	READCK, MA	ARK1‡		
_	02786		03026		02 960		В	LCOK#			
	02798		03167		02 970	RACD	TEM	MARK,5,10			
_	02810		03061		02 980		TF	PINFMT, *-	-13‡		
	02822	49	02858	00000	02 990		В	* 836 			
-	02834		03165		03 000	RATY	TR	MARK-2	,POST&32‡		
	. 02846		03061		03 010		.TF	PINEMT, *-	-13‡	*	
) _	02858		03159		03 02C	***************************************	TDM	MARK1,7#			
	02870		03002		03 030		В	LCOK-24#			
_	02882		03167		03 040	WACD	TFM	MARK, 4, 10			· · · · · · · · · · · · · · · · · · ·
	02894		03061		03 050		TF	PINFMT, *-	-13‡		
_	02906		02978		03 060		<u> </u>	#&72#			
	02918		03165		03 070	WATYSC		MARK-2	,RTPAR&20+		
_	02930		03061		03 080		TF	PINEMT	,*-13+		
	02942		02978		03 090		В	* &36 			
_	02954		03165		03 100	WATYE	TR	MARK-2	,POST&32+		
	02966		03061		03 110		TF	PINEMT, *-			
_	02978		03159		03 120		TDM	MARK1,9,			
	02990		03128		03 130		TFM	NEXT, INO			
_					03 140			LTPARX, PO			·
	03014	31	00061	01880	03 150		TR	FAC&1	•FZEREC-2#		
-					03 160	*		TILAT 0505		6056555	. = 7.01.21
		-			03 170				PHERS FORMAT	SPECIFICA	#11UN2#
-	03026			COOLM	03 180	FOOK	TFM	STOWX,34	,1011#		
	03038			-0005	03 190		AM	*823,5			
_	03050	26	03250	00000	03 200		TF	BRNCH&6#			· · · · · · · · · · · · · · · · · · ·
	03061				03 210	PINEMT		9 * ‡			
-	03062	44	03244	03250	03 220	-	BNF	BRNCH, BRI		11165 0	
			00100	00355	03 230	* 11			SPEC. OTHE	< MI2F % \	7
-	03074			03159	03 240		BNF	*&34,MARI			
	03086		03252		03 250		BNF	TRAC, LAS			
-	03098		03375		03 260	1.5.7.7.	SF	RTPARX,4			
	03110		03378		03 270	WRITE	BNF	CARD, MARI			
-	03122	16		0-000	03 280		TFM.	INCUT,,1	j‡ .		
	03133		1		03 290	N.E.V.E	DC.	1,0,**	2.1		
	03128				03 300	NEXT	DS	, WRITE&1:	57		
7											

												
_	7	PAGE	REMARKS	AND	OPERANDS	MNEM	LABEL	LN	Q	P/L	СP	LOCTN
			ARK&1+	, MA	* 824	BNF	READ	310	03168	0315 8	44	03134
10	PIS	,25689,	,	,	00005	RCTY		320	0-J02	-00-N	34	03146
:		•			1,2,*-1#	DĊ		330		1		03156
					,*-10 ‡	DS	FIXFLG	3 340			,	03147
					I NOUT #	WA		350	00000	C5103	3.9	03158
		ICE*	UTPUT DE	IT/OU	, #-2, INPL	DS	MARK	360				03167
		†	OR OUTPUT	O TU	, #-10, INP	DS	MARK1	370				03159
				, ‡	MARK&1	TDM	CRCD	380		03168	15	03170
			‡	RK1+	ACCEPT, MA	BNF		390		03266		03182
		· · · · · · · · · · · · · · · · · · ·			NEXT, INCL		POST	400		03128		03194
					LOOK, RTPA	BNF		410		03026		03206
 ,	,	,8910#	0	,10	RTPARX	CF		420		03375		03218
					1,0,**	DC		430		1		03229
			ASTX#	• LA	LTPARE48	BNF		3 440		02774	44	03230
				,	#	BB		450		00000		03242
		· · · · · · · · · · · · · · · · · · ·				DORG		3 460		00000	12	03244
					,,1#	B	BRNCH	3 470		00000	ΔD	03244
					*-4#		DINITO	3 480		00000	717	03251
					1,0#	DC		3 490		1		03251
				(-1+	LAST, MARK		TRAC	3 500		03914	1.1.	03252
				(-1+	‡	BB	INAC	510		00000		
						DORG		3 520		00000	42	03264
							ACCEDT			02027		03266
				*	LOOK, MARK		ACCEPT	530	03167	03026	44	03266
					LOOK#			540		03026		03278
					READ#	B		550		03134	49	03290
*			•			DORG		560				03298
-1		111	Ŧ <u> </u>	KKT	READCK, MA	BNF	SLASH	570		03506		03298
-		,11#			CRCD&11	TOM		580		03181		03310
		· · · · · · · · · · · · · · · · · · ·		J1#	NEXT, INOL	CM-		590		03128		03322
- 1					WRITE#	BNE		3 600		03110		03334
		· · · · · · · · · · · · · · · · · · ·		(#	#832,MARK	BNF		3 610		03378		03346
					‡	RCTY	FLAGS	3 620		00000		03358
					POST#	<u>B</u>	- 	3 630		03194	49	03370
					-3			3 640				03378
				#	*&18,NEX1	TF	CARD	3 650		03396		03378
					,,10‡	TFM		3 660		00000		03390
					*-6,2,10	AM		3 670		03396		03402
		F .	NOUT&160	, IN	* -18	CM		8 680		03396		03414
					*-36‡	8L			01300			
					*835,1,10	- AM	•	3 700		03473		03438
					INOUT&153	TR		3 710		05256		03450
					INOUT&158	TDM		720		05261		03462
		·			INOUTE156	TD		3 730		05259		03474
			15‡	4,*-]	INOUT&154	TD		3 740		05257		03486
			·		READ&24#	В		3 750		03158		03498
		-			* -3 +			3 760				03506
	<u>.</u>		ARK#		READ&24		READCK	3 770		03158		03506
				FMT+	*&30,PIN	TF		3 7 80		03548		03518
··					*&18,5	AM		3 790	-0005	03548		03530
					,SLASH#	CM	-	3 800	-3298	00000	14	03542
					READ#	BNE	·	3 810		03134		03554
				‡	SLASHE60	В		3 820		03358		03566
						DORG		3 830				03574
				OX‡	PINEMT, BO	TF	RTPAR	3 840	02761	03061	- 26	03574
		,910‡	0	0X‡			RTPAR	3 840 3 850		03061 03375		035 74 03586

	LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 8
	03597		1	·		860		DC	1, @, * ‡
	03598		03622			870		BNF	#&24, NUMBX#
	03610	32	03374	00010		880		SF	LASTX ,10 ,10‡
	03621		1			890		DC	1,3,**
	03622		03194			900		BNF	POST, MARK1+
	03634		03181			910		TD	CRCD&11 ,MARK-2+
	03646	49	03322	00000		920		B	SLASH&24#
	03654			,		930			#-3‡
	03/5/	1.	02021	2/77		940			HTYPE AND XTYPE‡ TF&11,*&23‡
	03654		03821 03358			950 960	XTYPE	TFM CF	HTYPEX,,10\$
	03666		03774			970		BNF	SKIP, STOWX#
	03690		03061			980	HTYPE	AM	PINFMT,2,10#
	03702		03725			990	111172	TF	*623,PINFMT*
	03714		03889			000		TF	COUNT#
	03726		03774			010	LOOP	BNF	SKIP, HTYPEX+
	03738		03061			020		AM	PINFMT, 2, 10 +
	03750		03830			030		BNF	HR, MARK1‡
	03762		03821			040		TF	TF&11,PINFMT#
	03774		03854			050	SKIP	BNF	XR, MARK1+
	03786	26	03816	03128	04	060		TF	*830,NEXT\$
	03798	11	C3128	000-2	04	070	-	AM	NEXT,2,10#
	03810		00000			080	TF	TF	<u> </u>
	03822	49	03866	C0000		090		В	TIEH#
	03830					100			* -3 *
	03830		03848			110	HR	TF	*&18,PINFMT+
_	03842		00000			120		TF	, INOUT ‡
•	03854		05102			130	XR	TR	INOUT-1, INOUT&1+
	C3866		03889			140	TIEH	SM	COUNT,1,10#
	03878	46	03726	01100		150	COUNT	BP	LOOP#
	03889		04262	03350		160 170	COUNT	DS BNF	,## STOW,STOWX#
	03890 03902		03026			180		B	LOOK#
	03902	49	03026	00000		190	#A11		INSTRUCTIONS BTM TO NUMBER#
						200			ST IN LIST, #
						210			TO LAST#
	03914	26	03937	03913		220	LAST	TF	NUMBER-1 ,*-1*
	03926			C0000		230		SF	LASTX#
	03938			00042		240	NUMBER		NUMBX,42‡
	03950	44	03948	03250		250		BNF	
	03962			00000		260		CF	BRNCH&6+
	03974			00000		270		SF	BRNCH&3‡
	03985				04	280	EXP	DS	,*+
	03986	32	03249	00000		290		SF	BRNCH&5‡
	03997		1			300		DC	1,0,**
	03996					310	SAVE	DS	,*-1
	03998			03147		320	··	TR	SIGN-2, FIXFLG+
	04010	44	05316	03159		330		BNF	INPUT, MARK1 +
	 					340			WING ROUTINES PREPARE*
				0000=		350	*NUME		ATA FOR OUTPUT\$
	04022			03937		360		TF	*&23,NUMBER-1#
	04034	. 26	00060	00009		370	" DITT	TF	FAC,9‡
	01011	•	0/053	0057		380			,E,F, OR I TYPE NUMERIC#
	04046			-0056		390	DEFI	TEM	A&11 ,FAC-4#
	04058	14	03246	CCORR	U4	400		CM	BRNCH82,99,1011#

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LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	<u>OPERANDS</u>	AND REMAI	RKS	PAGE	9 C
04070	46	04746	01200	04	410		BE	ITYPE#				
04082		03246		04	420		CM	BRNCHEZ	,94		,1011#	
04094		04898		04	430		BE	DTYPE# .				
04106		04570			440		BH	AGUT#				
					450	* STO			OR F, SAVE		ONENT#	
04118		03996			460		TF	SAVE	,FAC-8‡			
04130		03996			470		SM	SAVE	,50		, 10‡	
04142		04166			480		BNF	* &24	,FAC+			
04154		03361			490		TFM	SIGN, 20,				
04166		03246			500		CM	BRNCH&2,	95,1011#			
04178		04966			510		BL	FTYPE#				
04190		03362			520	ETYPE	SF	ETYPEX#				
04202		03985			530		TFM	EXP,,10#				
04214		03889			540		TF	COUNT, BRI				
04226		03889			550		<u> </u>	CCUNT, BR				
04238		03889			560		SM	COUNT,6,	10‡			
04250	46	03654	01100		570	TIE	8P	XTYPE#				
					580	* ROU				UUI	PUT BAND+	
04262			C3364		590	STOW	BNF	*&48,DTY				
04274		04304			600		TF	*&30,NEX				
04286			000-2		610		AM	NEXT, 2, 1	0#			
04298		00000			620		TF	,SIGN#				
04310		03985			630		SM	EXP,1,10	*			
04322			01300		640		BN	HCHO#	_			
04334		00052			650		TDM	FAC-8	,7		,11‡	
04346			03364		660		BNF	N50, DTYP	ŁX‡			
04358			00000		670	N50X	CF	FAC-7#				$-\mathbf{U}$
04370			03363		680		BNF	B ,ITYP				
04382			00053		690		TF	SIGN	,FAC-7#			
04394			00054		700		TR	FAC-7	,FAC-6‡			
04406			CCOCO		710		TDM	FAC&2#				
04418	49	04274	ccocc		720		8	STOW&12#				
04426	 -				730			*-3*	- FAG 71			
04426			00053		740	N50	BNF	N50X&12	,FAC-7#			
04438			0000N		750		TDM	FAC-8	,5		,11‡	
04450	49	04358	00000		780		В	N50X‡				
04458					790			*-3+	ETVEEVI			
04458	44	04382	03365		800	3	BNF	N50X824,				
		0000	000 1		810	* INS			R DEC. IF	EX	SMALLŦ	
04470			000-1		820		AM D.D.	SAVE,1,1				
04482			01100		830		BP	N50X824#				
04494			000P0		840		TEM	SIGN,70,				
04506	49	04274	00000		850		B	STOW&12#				
04514		0			860	11000		*-3‡	TVDEV±			
04514			03363		870		BNF	ISETYP, I	ITPEXŦ			
04526			00000		088	•	CF	ITYPEX#	0+			
04538			000-3		890		TEM	SIGN, 3, 1				
04550			03250		900		TF	EXP, BRNC	HGOŦ			
04562	49	04262	00000		910		3	STOW#				
04570			00000		920			*-3‡				
04570			00000		930		SF_	FAC-9#	NEVT!			
	76	04612	03128		940 950		TF.	#£30	,NEXT#		10+	
04582					- u 1, ()		AM	NEXT	, 2		, 10‡	
04594	11	03128							EAC OF			
	11 26	00000	000-2 00052 00053	04	960 970		TF TR	FAC-9	,FAC-8#		<u> </u>	_

LOCTN	GP	P/L	<u> </u>	PG LI	N	LABEL	MNEM	OPERANUS	AND	REMARKS	РА	GE	10	
C463C		03248		C4 98	8 C		SM	BRNCH&4	, 1		, 10‡			
04642		04570		04 9			BNE	AOUT#						
04654		03026		05 00			В	LCCK#						
04662		<u></u> ~		05 0			DORG							
				05 0		*EXIT	TO 19	SETYP AFTE	ER P	ASS1 UF	I TYPE	, ‡		
				05 03		*AND	2ND PA	ASS E,F,D	TYP	E#				
04662	44	03026	03362	05 04				LCOK, ETY					•	
				05 0				XPONENT#						
04674	31	00057	03993	05 00		. =	TR	FAC-3,SAV	/E-3	‡		_		
04686		04853		05 0			TFM	A811	,F	AC-5‡				
04698		03248		05 0	8 C		TFM	BRNCHE4,	3,10					_
04710		04740		05 0	90		TF	#830,NEXT						
04722		03128		05 10	00		AM	NEXT, 2, 10						
04734		00000		05 1	10		TFM	,45,10#						
				05 1	20		ENTER	R I TYPE T						
04746		03363		05 1	30	ITYPE	TFM	SIGNE2	, 0	000	,8,		S 10	00 1
0475.8	44	04782	00060	C5 14	40		BNF	#824,FAC	‡		-			
04770		03361		05 1	50		TFM	SIGN, 20, 1						
04782	31	00053	00057	05 1	60		TR	FAC-7	,F	AC-3‡				
04794	16	03985	000-4	05 1	70		TEM	EXP,4,10	‡					
04806	43	04854	00053	05 1			80	*&48		AC-7#				
04818	31	00053	00054	05 1	90		TR	FAC-7		AC-6#				
04830	12	03985	CCO-1	05 2			SM	EXP,1,10	<u> </u>	-				
04842		04806		C5 2	10	Α	BNR	* -36	,F	AC-6‡		-		
04854	26	03889	03248	05 2	20		TF	COUNT, BRI		4#				
04866	12	03889	000-1	05 2	30		SM	COUNT,1,	10#					
04878		03889		05 2			S	COUNT, EX	P #					
04890	49	04250	ccoco	05 2			В	TIE#						
04898				05 2				*−3 ‡						
04898		03364		05 2		DTYPE	CF	DTYPEX#						
04910		03985		05 2			TF	EXP, BRNC						
04922		00062		05 2			TF	FAC&2		AC#				
04934		04262		05 3			BD	STOW, BRNO						
04946		00053		05 3		_	TR	FAC-7	, F	AC-1#	_		_	_
04958	49	04262	00000	05 3			В	STOW#						
04966				05 3				*-3 ‡				_	 -	
04966		03985		05 3		FTYPE	TF	EXP, SAVE						
04978		05002		05 3				#824, SAV						
04990		03985		05 3			TFM							
05002		03889		05 3			TF	COUNT, BR		4‡				
05014		03889		05 3			SM	COUNT,2,						
05026		03889		05 3			S	COUNT, BRI		6‡				
05038		03889		05 4			S	COUNT, EXI	P #					
05050		05082		05 4			BN	ERROR#						
05062		03365		05 4			SF	FTYPEX#						
05074	49	04250	00000	05 4			В	TIE#						
05082				05 4				#-3#						
				05 4				O E TYPE+		.9				
05082		03250		05 4		ERROR	TEM	BRNCHE6,	8,10	+				
05094	49	04190	00000	05 4			8	ETYPE#						
05102				05 4				*-3 ‡			i			
05103		. 1		05 4		INCUT	DAC	1,0#						
05315		212		05 5			DS	212‡						
0,31,7							_		-					
05316		00060		05 5		** * INPUT	* FI: TF	XED FORMA FAC		IPUT# ZEREC-9#	· · · · · · · · · · · · · · · · · · ·			

C5328	LOCI	ΓN	СP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	11	$\overline{\mathbf{O}}$
05340			1.4	03246	OCOPM	0.5	530		CM	RRNCHE2	.94	-1011#		
C5352														
05364														
05346	033.		70	0.7.7.0	01200			μ Λ						
C5376 22 03250 03248 05 580 S BRNCH66 BRNCH664 C5388 31 00051 00053 05 590 TR FAC FAC FAC FAC C5412 33 00059 00000 05 610 CF FAC FAC FAC FAC C5424 31 05102 C5104 05 620 TR INOUT INOUT C5424 31 05102 C5104 05 630 SM BRNCH64 I 104 C5448 47 05388 01200 05 640 BNE *-604 C5448 47 05388 01200 05 650 B *EA44 C5448 31 00051 00053 05 670 TR FAC FAC TR C5448 31 00051 00053 05 670 TR FAC FAC TR C5448 31 00051 00053 05 670 TR FAC FAC TR C5448 31 0051 00053 05 670 TR FAC TR C5458 31 00051 00053 05 670 TR FAC TR C5468 31 0051 00053 05 670 TR FAC TR C5516 47 05468 01200 05 700 SM BRNCH66 TR C5524 49 05632 00000 05 700 SM BRNCH66 TR C5536 31 00051 00052 05 730 DURG *-34 C5536 31 00051 00052 05 740 TYPE # C5536 31 00051 00050 05 760 TYPE # C5566 40 05103 05 760 TYPE # C5572 40 05596 01300 05 760 TYPE # C5572 40 05596 01300 05 760 TR INDUT TR C5572 40 05596 01300 05 780 BNM *224 C5584 32 00060 05103 05 760 TR INDUT TR C5572 40 05596 01300 05 780 BNM *224 C5586 40 0510 05000 05 800 TR INDUT TR C5572 40 05596 01300 05 780 BNM *224 C5586 40 0501 00000 05 800 TR INDUT TR C5572 40 05596 01300 05 780 BNM TR C5686 40 0501 00000 05 800 BNM TR C5686 40 0501 00000 05 800 BNM EFTYPE C5666 40 0501 05 800 BNM EFTYPE C5676 40 05860 00000 05 800 BNE EFTYPE C5702 16 06010 5700 05 800 BNE EFTYPE C5702 16 06010 5700 05 900 BNE EFTYPE C5703 40 05050 05050 05 900 BNE EFTYPE C5712 40 05050 05050 05 900 BNE EFTYPE C5764 40 05050 05050 05 900 BNE EFTYPE C5764 40 05050 05050 05 900 BNE EFTYPE C5764 40 05050 05050	0534		1.6	03250	000-6					-	-6	-10±		
05388 31 00051 00053 05 590 TR												7101		
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05412 33 00059 00000 05 610													-	
05424 31 05102 05104 05 620 TR INDUT-1 *INDUT61* 05448 47 05388 01200 05 640 BNE *-60* 05468 07 05388 01200 05 640 BNE *-60* 05468 10 00504 00000 05 650 B *&644* 05468 11 00051 00053 05 660 DORG *-3* 05468 31 00051 00053 05 670 TR FAC-9 ,FAC-7* 0548C 16 00060 000-0 05 680 FFM FAC , 10* 055492 33 00059 00000 05 690 CF FAC-1* 05596 12 03250 000-1 05 700 SM BRNCHE6 ,1 ,10* 05516 47 05468 01200 05 710 BNE *-48* 05536 05 740 DORG *-3* 05536 14 0510 0052 05 750 DNUM TR FAC-9 ,FAC-8* 055492 32 00000 05 770 CM INDUT ,70 ,10* 05560 14 0510 0005 770 CM INDUT ,70 ,10* 05572 46 05596 01300 05 780 BNN *624* 25 00060 0000 05 790 SF FAC-9* 05596 31 05102 05104 05 800 TR INDUT-1 ,1NDUT61* 05608 12 03248 000-1 05 810 SM BRNCH66 ,1 ,10* 05642 47 05536 01200 05 820 BNE DNUM* 05642 40 0560 0000 05 830 CM FFAC-9* 05544 26 05662 0397 05 840 TF FAC-9* 05568 47 05536 01200 05 800 TR INDUT-1 ,1NDUT61* 05668 40 03014 00000 05 800 TF ** 05644 26 05662 0397 05 840 TF ** 05648 47 05536 01200 05 800 BN BRNCH64 ,1 ,10* 05649 40 03014 00000 05 800 BN BRNCH62 ,99 ,1011* 05644 41 03246 000R 05 890 BNE EFTYPE* 05648 47 05836 01200 05 800 TF ** 05649 47 05836 01200 05 800 BN EFTYPE* 05640 40 03014 00000 05 800 BN EFTYPE* 05776 40 030000 050 050 050 050 050 050 050 050											71110017			, 1
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05816 16 00060 0R999 06 050 FIL TFM FAC ,9999 ,8\$			1 2	00000	00000									······
			16	00060	ORGGG			FII			. 9999	.8‡		
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05836 06 070 DORG *-3‡			4 9	00770	00000				· 		•			
0,000						<u> </u>			201.0					

H.1	LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS		12
	05836	16	06010		06		EFTYPE	TFM	BX86	DIGIT	•8 ‡	
	05848		06018		06	090		TFM	DIGIT&6	,FAC-7+		
	05860	16	05998	00060	06	100		TFM	AX &6	,TR	,8‡	
	05872	16	06247	0-041	06	110		TFM	SETSF&1	,41	,8‡	
	05884	16	06131	0-021	06	120		TFM	EXPSG&1	,21	,8‡	
	05896	31	06254	06414	06	130		TR	EX1-2	,MIN-12#		
	05908		06048			140		TDM	EXPA	,1	,11‡	
	05920		05103			150	LP	CM	INOUT	, 3	,10#	
	05932		06266			160		BE	DEC#			
	05944		05103			170		CM	INOUT	,20	,10÷	
	05956		06426			180		BE	MIN#			
	05968		05103			190		CM	INOUT	,70	,10#	
-	05980		06330		06			BL	BLKPL*			
	05992		00000			210	AX	BE	‡	•		
	06004		00000				BX	В	*			
	06012	7,	00000	00000		230	DA	DORG	•	•		
	06012	25	00000	05103		240	DIGIT	TD		.INOUT+		
	06012		06018			250	01011	AM	* -6	,1	,10#	
	06036		05998			260		TFM	AX&6	,8X+		
	06048		00052			270	EXPA	AM	FAC-8	,1	,10+	
	06060		05102			280	TR	TR	INOUT-1	+1aTUONI,	7207	
	06072		03248			290	, I B	SM	BRNCH&4	,1	,10+	
	06084		05920			300		BNE	LP#		7.107	
			05764			310		BNF	INFX2	,BX&3+		
	06096		06130			320		BD	*822	,FAC-7*		
	06108							В	COM#	FAC-14		
	06120	49	05632	00000		330	CU	DS	COMT	• *- 2*		
	06129					340	CH		*-1 	9 4 7 2 4		
—	06130	21	00050	0/25/		350	EVACC			,EX1#	************************	
	06130		00052			360	EXPSG	A	FAC-8			
	06142		00052			370		A	FAC-8	,CH+		
	06154		06210			380		BNF	*&56	,EXPA+		
	06166		06186			390		BNF	*820	,EX1-2*		
	06178	49	06198	00000		400		В	*&20			
	06186					410	4.1. 1.4		+ −3 +			
	06186		00052			420		A	FAC-8	,DD‡		
	06198		00052			430		S	FAC-8	,BRNCHE6#		
	06210		00052			440		MA	FAC-8	,50	,10+	
	06222		06510			450		BN	INUNF#	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	06234	46	06478	01400		460		BV	I NOVP#			
	06245					470	DD	DS		,++		
	06246	32	00060	00000		480	SETSF	SF	FAC+			
	06256					490	EX1_	DS		,*-1*		
	06258	49	05632	00000		500		· B	COM#			
	06266					510			* −3 ‡			4-4
	06266		06290			520	DEC	BNF	#624	AXE3#		-
	06278		05998			530		TEM	AX&6	,*&32*		
	06290	15	06048	00004	06	540		TDM	EXPA	,4+		
	06302	49	06060	00000	06	550		В	TR#			
	06310					560			* -3 ‡			
	06310	12	06129	000-1	06	570		SM	CH	,1	,10+	
-	06322		06060			580		В	TR#			
	06330					590		DURG	* −3 ‡			
	06330	44	06350	05995		600	BLKPL	BNF	*&20	,AX&3+		
	06342		06060			610		В	TR#			
			<u> </u>	· · · · · · · · · · · · · · · · · · ·		620			* −3 ‡			
	06350								DD	, 1	,10‡	

												
LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMAI	RKS	PAGE	13
06362	16	06010	00382	06	640		TFM	8 3 X8	•B2	. •	, 8‡	
06374		06060			650		В	TR#	•			
96382	1.7	00000	00000		660			* −3‡				
06382	31	06254	06255		670	82	TR	EX1-2	,EX1-1#		4-18-6	
06394		06256			680		TD	EX1	, INOUT+			
06406		06255			690		SF	EX1-1	7		, 9‡	
06417	32	1	00 00		700		DC	1	,	â	9##	
06418	49	06060	00000		71C		В	TR#				
06426	1,7	00000	00000		720		_	* −3 ‡				
06426	44	06458	05995		730	MIN	BNF	*€32	+83XA,			
06438		06247			740		TEM	SETSF&1	,32		,10#	
06450		06060			750		В	TR#	102		7201	
06458	77	00000	00000		760		_	* −3‡				
06458	15	06131	00003		770		TOM	EXPSG&1	,2‡			
06470		06362			780		В	BLKPL&324				
06478	47	00302	00000		790	<u> </u>		*-3‡	*			
	24	00060	01061		800	INOVP	TF	FAC	,FNINES	-2±		
06478 06490		06531			81C	INCAL	WATY		THINES			
		06246			820		В	SETSF#				
06502 06510	49	00240	00000		830			*-3*				·
	21	00040	01072		840	TAILINE	TF	FAC	,FZEREC	_0+		
06510		00060			850	INUNF	E	INOVPE12		7+		
06522	47	00490	COOCO		860		_	#-3 	,			
06530					870	= VAD		FLAGS AND	DINC+			
03358					880	HTYPEX		,FLAGS AND	DINST			
03359					890	STCWX	DS	FLAGSE1	<u> </u>			
					900	SIGN	DS	,FLAGS&3				
03361	· · · · · ·				910	ETYPEX		FLAGS&4				
03362					920	DTBX	DS DS	FLAGS&4				
	····				930	ITYPEX		FLAGS&5				
03363						DTYPEX						
03364 03365					940 950	FTYPEX		,FLAGS&6=				
					960	EX	DS DS	FLAGS&7				
03365					970	SEY	DS	FLAGS&9				
03367			*		980	NUMBX	DS DS	FLAGS&1!				
03373		· · · · · · · · · · · · · · · · · · ·			990	LASTX	DS	FLAGS&1				
03374					000	RTPARX		FLAGS&1				
03375	` `				010	LTPARX		FLAGS&1		 		
03376		5			020		DAC	5	∍+ ∴,ERIN@‡			
06531		<u> </u>					DS	,				
00078					030 040	TFAC		INCUTE87	•78 			
05190	2 5	02100	00400		050		TE	FAXB&2	• • • • • • • • • • • • • • • • • • •			
05190		02190					TD	FAXB&26	,400+ ,400+			
05202			00400		060		TD	FAXB628	,400#			
05214			00400		07.0		TD	FAXB&10	,400+			
05226			00400		080				,400+			
05238	49	00000	66000		090		B	‡ ‡				
00000				01	100		DEND	7				

000* 0480 0480 0380 04930 06210 04800 0750 06600 02930 03470	ADCT1 ADCT2 AOUT AX B BB	04390 00450 00175 04440	050 7 0 002 7 0	02385	11/63 F	FIXED F	-MI AI					
0480 0380 4930 6210 4800 0750 6600 2930	ADCT1 ADCT2 ACUT AX B BB	00450 00175 04440 06100	00270 04990									
0380 14930 16210 14800 10750 16600 12930	ADCT2 ACUT AX B BB	00175 04440 06100	04990									
4930 6210 4800 10750 16600 12930	ACUT AX B BB	04440 06100	04990			······································						
6210 4800 0750 6600 2930	A X B BB	06100		06520								
4800 10750 16600 12930	B BB		06260	unizu		04400	04720					
0750 16600 12930	ВВ	04000			06530	00000	06/30					
6600 2930		001/0	00070	02/50	•							
2930	011/01		02270	02450								
	BLKPL	06200 02900										
13410	80X			02220	04250	04240	04270	04200	04400	04420	04500	
	BRNCH				04230							
					05580							
		06430	07770	03310	0,000	0.5500	0,000	03100	0,010	0000	00270	
16220	ВХ		06080	06260	06310	06640						
6670	B2	06640	00000	00200	00310	00010						
3650	CARD	03270										
6340	CH		06020	06370	06570							
					00.10							
					04550	04560	05220	05230	05240	05370	05380	
	00011			3,2,0	<u> </u>							
3380	CRCD											
		06080	06090									
5750												
06920	DTBX											
5270	DTYPE	04430										
1230	DVRND	01170										
2670	EMM	02720									,	
2720	END	02730										~
0730	ENDD					01060	01690	02060	02110	02140	02200	
0570	ERO	01070	03710									
35460	ERROR	05410										
0770	ER9			01630								
1790	ETAB		02290									
14520	ETYPE	05470										
06960	EX											
04280						05200	05240	05280	05340	05360	05400	
				06380	06540							
				64000		0117-	3440	04400				
		06130	06360	06390	06670	06670	06630	06690	00270	00300	00400	<u> </u>
11//0	FAC											
		01040	01490	01510	01140	01560	01280	01610	01620	01400	01700	
					05160					05290		
					05590							
					05760							
					06090							
							00320	00,000	00510	00120	- 50,50	
		04440			しつしてい	*						
10175	EAD	06440				00130	00220	00230	00240	00250	00290	
00175	FAD	00130	00140	00150	00160	00130	00220	00230	00240	00250	00290	
		00130	00140	00150 00370	00160	00420	00470	02380	02400	00250	00290	
00175	FAD1	00130	00140	00150 00370	00160	00420	00470	02380	02400	00250 02410	00290	
	5830 4160 3380 6470 6520 4390 6240 5750 6920 5270 1230 2670 2720 0730 0570 5460 0770 1790 4520 6960	5830 COM 4160 COUNT 3380 CRCD 6470 DD 6520 DEC 4390 DEFI 6240 DIGIT 5750 DNUM 6920 DTBX 5270 DTYPE 1230 DVRND 2670 EMM 2720 END 0730 ENDD 0570 ERO 5460 ERROR 0770 ER9 1790 ETAB 4520 ETYPE 6960 EX 4280 EXP 6360 EXPSG 6490 EX1	5830 COM 05720 4160 COUNT 04000 05390 05390 3380 CRCD 03580 6470 DD 06420 6520 DEC 06160 4390 DEFI 06080 5750 DNUM 05550 6920 DTBX 5270 DTYPE 04430 1230 DVRND 01170 2670 EMM 02720 2720 END 02730 0730 ENDD 00260 02240 0070 ERO 0570 ERO 01070 5460 ERROR 05410 0770 ER9 00700 1790 ETAB 02280 4520 ETYPE 05470 6627C EXPA 05960 64490 EX1 06130 1770 FAC 00180 00420 00420 01040 01460	5830 COM 05720 06330 4160 COUNT 04000 04140 05390 05400 3380 CRCD 03580 03910 6470 DD 06420 0663C 6520 DEC 06160 4390 DEFI 06080 06090 5750 DNUM 05550 05820 5750 DNUM 05550 05820 DTBX DTBX 0570 05820 DTBX DTYPE 04430 0430 1230 DVRND 01170 05820 2720 END 02720 02730 02730 0730 END 00260 00500 00240 02270 0570 ERO 01070 03710 03710 00400 00270 00220 00290 00290 00290 00290 00290 00290 00290 00290 004630 00290 004630 00290 00490 00490	5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 05390 05400 3380 CRCD G3580 03910 6470 DD 06420 06630 6520 DEC 06160 4390 DEFI 06080 06090 5750 DNUM 05550 05820 6920 DTBX 05820 05820 5270 DTYPE 04430 0490 1230 DVRND 01170 070 2670 EMM 02720 02390 2720 END 02730 0260 00500 00640 0730 END 00260 00500 00640 0570 ERO 01070 03710 03710 5460 ERROR 05410 0770 ER9 00700 01200 01630 14280 EXP 04530 04630 04900 <td>5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04550 05390 05400 3380 CRCD 03580 03910 06470 06520 DEC 06160 06630 06630 06520 DEC 06160 06090 06420 06630 06090 06920 DEC 06160 06090 06920 DEC 06160 06090 <t< td=""><td>5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04550 04560 3380 CRCD 03580 03910 06470 06630 06520 06630 06520 06630 06630 06520 06630 0660 06630 0660</td><td>5830</td><td>5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04550 04560 05220 05230 3380 CRCD 05390 05400 0520 05230 0520 05230 6470 DD 06420 06630 06630 05200 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520</td><td>5830</td><td>5830</td><td>5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04560 05220 05230 05240 05370 05380 3380 CRCD 03580 03910 06470 0D 06420 06630 06630 06520 0EC 06160 06420 06630 06630 06640 06630 06640 06620 06620 06620 06620 06620 06620 0700 <t< td=""></t<></td></t<></td>	5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04550 05390 05400 3380 CRCD 03580 03910 06470 06520 DEC 06160 06630 06630 06520 DEC 06160 06090 06420 06630 06090 06920 DEC 06160 06090 06920 DEC 06160 06090 <t< td=""><td>5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04550 04560 3380 CRCD 03580 03910 06470 06630 06520 06630 06520 06630 06630 06520 06630 0660 06630 0660</td><td>5830</td><td>5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04550 04560 05220 05230 3380 CRCD 05390 05400 0520 05230 0520 05230 6470 DD 06420 06630 06630 05200 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520</td><td>5830</td><td>5830</td><td>5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04560 05220 05230 05240 05370 05380 3380 CRCD 03580 03910 06470 0D 06420 06630 06630 06520 0EC 06160 06420 06630 06630 06640 06630 06640 06620 06620 06620 06620 06620 06620 0700 <t< td=""></t<></td></t<>	5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04550 04560 3380 CRCD 03580 03910 06470 06630 06520 06630 06520 06630 06630 06520 06630 0660 06630 0660	5830	5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04550 04560 05220 05230 3380 CRCD 05390 05400 0520 05230 0520 05230 6470 DD 06420 06630 06630 05200 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520 0520	5830	5830	5830 COM 05720 06330 06500 4160 COUNT 04000 04140 04540 04560 05220 05230 05240 05370 05380 3380 CRCD 03580 03910 06470 0D 06420 06630 06630 06520 0EC 06160 06420 06630 06630 06640 06630 06640 06620 06620 06620 06620 06620 06620 0700 <t< td=""></t<>

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00660	FAD2	00490					,					
02190	FAXB	02160	02230	07050	07060	07070	07080					
02160	FAXBN											
02020	FAXI	01990	02000	02050	02120		· · · · · · · · · · · · · · · · · · ·					
01990	FAXIN											
01160	FDV				01220	01240	01270				-	
01130	FDVR		02070	02080							•	
01330	FDV1	01280				·- ·- · · · · · · · · · · · · · · · · ·						
06050	FIL	05980				** .						
00560	FILL	00510								***		
02380	FIX	02200										1
01930 03620	FIXER FLAGS	02380	04900	04000	06010	04020	06930	04040	06050	06060	06970	
03620	FLAGS			07000		06920	06930	00940	06930	00900	00310	± .
02540	FLOAT	00900	00990	07000	01010							
00890	FMP	00000	00010	01040	01300	01340	02100	02130	02230	02250		
01010	FMP1	00930		01040	01300	01340	02100	UZIJU	02230	ULLJU		
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03000	RATY	
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04080 07030		U707U U4U4U
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_	
<u>.</u>	

LOCTN	CP.	P/L	Q	PG L	LN	LABEL	MNEM	OPERANDS	AND	REMARKS	S P	AGE	1
				00 (000	** PD6	FORT	TRAN PROCE	ESSO	R CLC2	10/63	‡	•
00402				00 (010		DORG	402‡					
00402	16	11523	000-0	00 (020	INITL	TEM	OMM1,0,10	C#				
00414	16	08427	R9999	00 (030		TEM	SMCNT,999	999‡				
00426	16	16135	-6600	00 (040		TFM	L	,6	600‡			
00438	26	16593	16135	00 (050		TF	LCAD,L#					,
00450	15	00459	00000	00	060		TOM	SKPPCH, 0	ŧ				
00459				00 (070	SKPPCH	DS	, *-2‡					
00462		11387		00	080	BEGIN	TEM	SUBN, 1, 10	0 ‡				
00474	24	16135	C8427	00	090		С	L, SMCNT	‡				
00486		00534		0.0	100		BNH	*848					
00498	34	00000	00102	0.0	110		RCTY	‡					
00510		165.63		0.0				OVERL#					
00522	15	00459	00001	0.0			TOM	SKPPCH,1					
00534		00702		00			TF	IFSWCH, Z	ERO9	-2#			
00546		00694		00			BNC4						
00558		17225		00			RACD	CHI#					
00570		00641		00			TEM	*871,CHL		‡			
00582		00680		00			TF	*&98,*&5					
00594		00641		00			SM	*847,2,1					
00606		00641		00			CM	*&35,CHI	‡				
00618		00462		00			BL	BEGIN#					
00630		00470		00			TF	BEGINE8#					
00642		00674		00			BD .	* &32		EGINE8#			
00654		00674		00		· · · · · · · · · · · · · · · · · · ·	BD	*&20	, B	EGIN&7#			
00666	49	00582	00000	00			В	#-84#					
CC674				00				*-3‡					
00674	16	00000	-0000	00			TFM		, ‡		_		
00685		2		0.0		·	DC	2	•		â,*‡		
00686	49	00730	00000	00			В	8A&36‡					
00694				0.0				*-3					<u> </u>
00694		00000		00		AS	RCTY						
00706		17225		0.0				CHI+					
00718		00694		00			BC4	BA‡					
00730		00802		00		TYST	BC1	BRC#					
00742		00000		00			RCTY						
00754		16131		0.0				L-4#					
00766		00000		00			SPTY						
00778			00100	00				CHI#					
00790		00731		00		200	TDM	TYST&1	, 6	7			
00802	49	00810	00000	00		BRC	8	‡83 *					
00810	• -	10011		00				*-3‡	Dist	C12±			
00810		10864		00			TFM	PUTETBE6		012Ŧ			
00822		00854		00			BD	*&32,CHI					
00834			17226	00			TR	CHI-1,CH	101+				· ·
00846	49	00822	00000	00			B	#-24‡					
00854	1,	17225	00043	00		·····		*-3# CHI,43,1	O +				
00854		17225					CM DNE		U+				
00866			01200	00		· · · · · · · · · · · · · · · · · · ·	BNE	*860# *823,CHI	62+				
00878			17227	00			C DA:E						
00890			012-0	00			BNE	*&36,0,1		<u> </u>			
00902			17229	00			C	*-1,CHIE	7+				
00011	46	00462	01200	00			BE	BEGIN#	0.1				
00914			00000	\sim	Z 1 (1)								
00914 00926 00938	14	17225	000P0 C1300	00			CM BL	CHI,70,1					

LC	CTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARK	.s	PAGE	2	
. 00	950	17	09248	-0962	00	630		ВТМ	CFXN, # & 12, 7 +				
	962		00984			640		TF	#622,SMTLU1610#			 	
	974		01022			650		BNF	* £48,4‡				
	986		00701			660		TDM	DOSWCH,7,11#				
	998		01020			670		TF	*&22,SMTLU1&10*				
	010		01069			680		TF	SLOT,4‡				
	022		01039			690		TF	#617,SMTLU1610#				
	034		00004			700		TF	4,L‡				
	046		01063			710	*	TF	*&17,SMTLU1&10+				
	1058		00005		00			SF	5‡				
	1069					730	SLOT	DS	, ##				
	070	16	01180	-0089		740	FRMAT1	TFM	FRMAT2&6,89#				
	082		16290			750		TF	BRINST&6,L#				
	1094		16141			760		TF	LODER, SMCNT+		·········	`	
	1106		01192			770	X	TFM	FRMAT2&18,88#				ì
	1118		16751			780		TR	PHI-1,CHI-1#				
	1130		01150		00	790		BNR	*&20,PHI+				
	142		01302			800		В	BLANKS#				
	1150				00	810		DORG	+-3+				
	1150	14	16752	000-0	00	820		CM	PHI,,10#				
01	1162	46	01246	01200	00	830		BÉ	FRMAT2872#) ·
	174	26	-0000	16752	00	840	FRMAT2	TF	,PHI,2‡				
01	1186	33	-0000	00000		850		CF	,,2‡				
01	1195		2		00	852		DC	2 ,37	, *-			:
0 1	1197		2		00	854	AVOID	DC	2	a,**			
0]	1198	14	01180	-0099	00	860		CM	FRMAT2&6,99#				-
0]	1210	46	01266	01200		870	:	BE	* &56 ‡				
01	1222		01180			880		MA	FRMAT266,2,10+				V
01	1234		01192			890		AM	FRMAT2&18,2,10#				
	1246		16751			900		TR	PHI-1,PHI&1+				
	1258	49	01130	00000		910		<u>B</u>	FRMAT1860+				
	1266					920			#-3#				
	1266		88000			930		SF	88‡				
	1278		00099			940		C	99,FRMSCT&10#				
	1290		02768			950	·	BE	FORMAT#				
	1302		14820			960	BLANKS		BGO,BGO-1+				
	1314			17224		970		TR	PHI-1,CHI-1+				i
	1326		01577			980		TF	BLNK1&11, ELEVEN&114	:			:
	1338		16752			990		CM	PHI,,10#			·	
	1350			16753		000		TR	PHI-1,PHI&1+				
	1362			C1200		010		BE	BLNK1#		·		
	1374			08195		020		A	BLNK1&11, INCREM#				
	1386			16752		030	BLNK2	BNR	*-48,PHI*				
	1398			01572		040		TF	*618,BLNK166#				
	1410			01194		050		TR	,AVOID-3‡				
	1422	49	01430	00000		052		B	*83*				
	1430	21	1/753	1722/		054	COECOO		#-3‡			,	
	1430			17224		060	SDECOD		PHI&1,CHI-1+				
	1442			16753 000L3		070		TR CM	PHI-1,PHI&1# PHI,33,10#				
	1454								ISITF-12#				
	1466			01200		100	STDCD2	BNE	PHI-1,PHI&1+				
	1478			16753		110	310002	BNR	*&20,PHI&04				:
	1490			16756 00000		120		B	ASCAN‡				
								1.7					
	1502 1510	47	11714	00000		130			*-3 				بالنسر

	LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 3
	01510		16752			140		CM	PHI,24,10‡
	01522		11514			150		BE	ASCAN‡
	01534		16752			160		CM	PHI,23,10#
_	01546		01478			170		BNE	STDCD2‡
	01558	49	05198	00000		180		В	DO#
	01566					190		DORG	
	01566		J7224			200	BLNK1	TR	CHI-1, CHI&1, 2 +
	C1578	49	01386	00000		210		В	BLNK2‡
	01586					220		DORG	
	01586		01442			230		BNR	SDECOD&12,PHI&4+
	01598		17225			240	ISITE	CM	CHI,46,10‡
	01610		01634			250		BNE	* 824
	01622		11426			260		BTM	ERROR, 7170, 8‡
	01634		17225			270		CM	CHI,49,10‡
	01646		04500			280		BE	IF#
	01658		17225			290		CM	CHI,47,10‡
	01670		05622			300		BE	GOTO‡
	01682		17225			310		CM	CHI,44,10‡
	01694		04436			320		BE	DIM#
	01706		17225			330		CM	CHI,42,10‡
	01718		01774			332		BNE	*&56‡
•	01730		17235			334		CM	CHIE10 ,57 ,10+
	01742		06050			336		BE	BEGPRO+
	01754		15991			338		TDM	TRACE&1 ,4#
	01766	49	00462	00000		340		В .	BEGIN‡
	01774					342		DORG	
	01774		17225			350		CM	CHI,43,10#
	01786		01842			360		BNE	*& 56 ‡
	01798		17233			370		CM	CHI&8 ,56 ,10‡
	01810		06640			380		BL	CONTIN#
	01822		04468			390		BE	COMM#
	01834	49	07116	C0000		400		В	CONTRL#
	01842		<u> </u>			410			* -3
	01842		17225			420		CM	CHI,59,10‡
	01854		01890			430		BNE	* &36 ‡
	01866		17229			440		CM	CHI64,63,10‡
	01879		06270			450		BE	XETURN#
	01890		17225			460		CM	CHI,62,10‡
	01902		07076			470		BE	STOP#
	01914		17225			480		CM	CHI,57,10‡
	01926		02126			490		BE	OUTCHK#
	01938		02262			500		BH	INCHK#
	01950		17225			510		CM	CHI,41,10‡
	01962		02318			520		BE	ACCEPT#
	01974		17225			530		CM	CHI,45,10‡
	01986		11646			540		BNE	ER1‡
	01998		17231			550		CM	CHIE6 ,57 ,10‡
	02010		06250			554		BE	ENDPRO#
	02022		02054			558		BL	*832‡
	02034		15991			562		TDM	TRACE&1 ,1=
	02046	49	00462	00000		566		<u>B</u>	BEGIN‡
	02054					570			#-3‡
	02054		06410			574	·····	BNR	EXPROC ,CHI&8‡
	02066	49	07240	00000		580		В	END‡
_	02074				01	590		DORG	*−3 ‡

LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 4
02074	43	02094	17235	01	591	CONTO	BD	*620 ,CHI&10#
02086	49	11646	00000	C1	592		В	ER1‡
02094				01	593		DORG	*-3 ‡
02094	16	01428	-2606	01	594		TFM	SDECOD-2 ,102&83‡
02106	31	17224	17236	01	595		TR	CHI-1 ,CHI&11+
02118		01314			596		В	BLANKS&12#
02126				01	597		DORG	*-3 ‡
02126	14	17227	000N9	01	600	OUTCHK	CM	CHI&2,59,10‡
02138	46	02230	01200	01	610		BE	PRINT#
02150	47	07056	01100	01	620		BNH	PAUSE#
02162	31	17224	17234	01	630		TR	CHI-1,CHI&9#
02174	14	17225	00003	01	640		CM	CHI,63,10‡
02186	47	02210	01200	01	650		BNE	# &24 ‡
02198	31	17224	17232	01	660		TR	CHI-1,CHI&7‡
02210	16	12916	-2882	01	670		TEM	INST286, WACD‡
02222		02398			680		В	IC1#
02230		•		01	690		DORG	#-3‡
02230	31	17224	17234		700	PRINT	TR	CHI-1,CHI&9+
02242	16	12916	-2954	01	710		TFM	INST286,WATY‡
02254		02398			720		В	IO1‡
02262					730		DORG	#-3 ‡
02262	14	17225	00003		740	INCHK	CM	CHI,63,10‡
02274		17224			750		TR	CHI-1,CHI&7+
02286		02366			760		BNE	RDCD‡
02298		12915			770		TEM	INST286 ,WATYSC+
02310		02398			780		В	IC1‡
02318	, ,				790		DORG	*-3‡
02318	31	17224	17236		800	ACCEPT		CHI-1,CHIE11#
02330		17225			810		CM	CHI,63,10‡
02342		02386			820		BNE	*£44 ‡
02354		17224			830		TR	CHI-1,CHI&7+
02366		12916			840	RDCD	TEM	INST286, RACD#
02378		02398			850		В	IO1‡
02386					860			*-3*
02386	16	12916	-2834		870		TFM	INST286, RATY+
C2398		12911			880	101	TFM	INST2&1,27,10#
02410		17225			890		CM	CHI,69,10‡
02422		02446			900		вн	#624#
02434		11426			910		BTM	
02446		09248			920		BTM	CFXN, #612#
02458			08426		930		TF	*622,SMCNT-1+
02470			-0006		940		TFM	INST2811,6#
02482		12925			950		TEM	INST2615,,8‡
02493		1			960	· · · · · · · · · · · · · · · · · · ·	DC	1,0,**
02494	27	13996			970		вт	PUT2, PUT2-1+
02506		12916			980		TF	INST286, IDINST86+
02518			17227		990	102	BNR	IO2820, CHI&2#
02530			00000		000		В	TESTDO#
02538					010			* -3 †
02538	14	17225	000K3		020		CM	CHI,23,10#
02550			17224		030		TR	CHI-3,CHI-1#
02562			01200		040	,	BNE	102‡
02574			17227		050		BNR	*844 ,CHI&2‡
02586			-2074		060		TFM	BRC&6 ,CONIO+
02598			00000		064		В	BEGINE84‡
								<u> </u>

 LOCTN	CP	P/L	Q	PG LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	5
 02606				02 070			*-3*		
02606	16	01428	-1430	02 075		TEM.	SDECOD-2 ,SDECOD#		
 02618		C0698		02 080		TDM	SBSWCH#		
02630		09474		02 090		BTM	CSORN, #812#		
 02642		02665		02 100		TF	#&23,PUTETB&6‡		
02654	31	12917	00000	02 110		TR	INST287#		
 02666		02690		02 120		BNR	*&24,CHI&2*		
02678	16	12916	-3914	02 130		TEM	INST286,COMPLT#		
02690	27	13996	13995	02 140		вT	PUT2, PUT2-1#		
02702	12	10864	-0009	02 150		SM	PUTETB&6,9#		
02714	49	02518	00000	02 160		8	102‡		
02722				02 170		DORG	*-3*		
02722	J7	03938	-2734	02 180	IOINST	BTM	SWC, LSUBS-1,07#		
02735		17		C2 190	LSUBS	DAC	17, LOAD SUBROUTINES 24	<u> </u>	
02768	31	17224	16751	02 200	FORMAT		CHI-1,PHI-1+		
 02780		02797		02 210		TF	*&17,SMTLU1&10#		
02792		00004		02 220		AM	4,6,10‡		
 02804		02821		02 230		TF	*&17,SMTLU1&10#		
02816		00005		02 240		TDM.	5,2,11‡		
 02828		16290		02 250		AM	BRINST&6,6#		
02840		14832		02 260		BT	BG0&12,BG0&11+		
 02852		03061		02 270		TFM	SWLP&1,17,10#		
				02 280		TEM	TRANS&18, PHI&6+		
 02864		03546	04425	02 290	·	TR			
02876							PHI-3, FMTSP-10#	10+	
 02888		03491		02 300	E C C AN	TEM	WIDTH ,80	,10‡	
02900		17224		02 310	FSCAN	TR	CHI-1,CHI&1#		
 . 02912			17225	02 320		BNR	*832,CHI*		
02924		00808		02 330		TEM	BRC&6 , CONFMT+		
 02936	49	00546	00000	02 340		В	BEGINE84#	<u> </u>	
02944				02 350			*-3*		
 02944		17225		02 360		CM	CHI,23,10#		
02956			01200	02 370		ВE	FSCAN#		
02968		17225		02 380		CM	CHI,,10#		
02980	46	02900	01200	02 390		BE	FSCAN#		
02992	14	17225	000K4	02 400		CM	CHI,24,10#		
 03004	47	03060	01200	02 410		BNE	SWLP#		
03016	16	03551	-2726	02 420		TEM	TRANS&23,LTPAR#		
03028	16	03570	-2900	02 430		TEM	TRNSBR&6,FSCAN#		
	16	03061	000M1	02 440		TFM	SWLP&1,41,10#		
 03052		03528		02 450		В	TRANS#		
03060				02 460		DORG	*-3 ‡		
 03060	17	11426	0P171	02 470	SWLP	BTM	ERROR,7171,8‡	·	
03072		03658		02 480		BNH	PUNCT#		
 03084		17225		02 490		CM	CHI,40,10#		
03096			01100	02 500		BNH	CHCHI&12#		
 03108			00009	02 510		CM	CHI,69,10#		
03100			01100	02 520		ВН	HOLL#		
 03132		03547		02 530	<u></u>	TD	TRANS&19,CHI+	· • · · · · · · · · · · · · · · · · · ·	
03132		03479		02 540		TEM	EFIND,,9#	•	
				02 550			CHI ,41	, 10‡	
03156		17225				CM		710+	
 03168		03276		02 560		BE	TIER+		
03180			000M4	02 570		CM	CHI,44,10#		
 03192		03962		02 580		BL	CHCHI&12‡	· .	
03204		03276		02 590		BE	TIER+		
03216	1 /	17225	000M9	02 600		CM	CHI,49,10#		

	6	PAGE	AND REMARKS	OPERANDS AN	MNEM	LABEL	LN	PG	Q	P/L	СР	LOCTN
				TIER#	BE		610			03276		03228
			‡	EFIND,,10#	TFM		620			03479		03240
				CHI,46,10#	CM		630			17225		03252
				CHCHI&12#	ВН		640			03962		03264
				CHI-1, CHIE	TR	TIER	650			17224		03276
	· ·			CFXN,00,10	BTM		660			09248		03288
				WIDTST,,104	BTM		670			03574		03300
				RPFMTE21	TF		680	02	17213	03995	26	03312
				TRANS&23,00	TFM		690			03551		03324
				PRETRN, EFIN	BNF		700			03468		03336
		···	,CHCHI-1+		BT	· · · · · · · · · · · · · · · · · · ·	710			03950		03348
				CHI,03,10#	CM		720			17225		03360
	· · ·			CHCHI&12#	BNE		730			03962		03372
- ;				CHI-1,CHI&	TR		740			17224		03384
			,CHCHI-1#		BT		750			03950		03396
				CHI,69,10#	CM		760			17225		03408
				CHCHI&12# CFXN,,10#	BNH		770 780			03962 09248		03420 03432
)				SYM-1#	SF.		790			17212		03444
			CVM+	TRANS & 23, SY	TF		800			03551		03456
				TRANS&20#		PRETRN	810			C3548		03468
				2,**	DS	EFIND	820			2		03479
1		,		TRANS&22#	CF.	2. 2.1.2	830		00000	03550	33	034/80
				TRANS&23#	SF		840			03551		03492
1				TRANS&19#	SF		850			03547		03504
				TRNSBR&6,FS	TFM		860			03570		03516
			‡	*&18,5,10*	AM	TRANS	870	02	000-5	03546	11	03528
U				PHIE6#	TFM		880	02		16758		03540
			NS&11#	PHI-1, TRANS	A		890			16751		03552
				#		TRNSBR	900		00000	00000	49	03564
					DORG		910					03574
i				SYM-1#		WIDTST	920			17212		03574
				TRANS&21,SY	TF		930			03549		03586
			*	WIDTH, SYM#	S		940			03491		03598
				*&36‡	BN		950			03646		03610
				SYM,,10#	CM		960			17213		03622
				CSORN-26‡ ERROR,7172	BTM		970 980			09448 11426		03634
				CHI,21,10#	CM	PUNCT	990			17225		03646 03658
			· · · · · · · · · · · · · · · · · · ·	*844	BNE	FUNCT	000			03714		03670
:			SI ASH±	TRANS&23,SI	TFM		010			03551		03682
				TRNSBR&6,F	TFM		020			03570		03694
			I OURIL ZET	TRANS#	В		030			03528		03706
				* −3‡			040			USELU		03714
				FSCAN#	вн		050		01100	02900	46	03714
-				CHI,04,10#	CM		060		000-4			03726
				CHCHI&12#	BNE		070			03962		03738
			RTPAR#	TRANS&23,R	TFM		080			03551		03750
<u> </u>			FINISH#	TRNSBR&6,F	TFM		090	03	-3782	03570	16	03762
				TRANS#	В	-	100		00000	03528	49	03774
				*-3 ‡			110		·			03782
				1H4,083		FINISH	120			03812		03782
		A		*£18,PHI-1	Α		130			03812		03794
				BRINSTES	TR		140			00000		03806
			1‡	*&23,PHI-1	TD		150	03	16751	03841	25	03818
				,								

	LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 7
	03830	43	03854	00210	03	160	•	ВD	#824,210
	03842		16751			170	V	AM	PHI-1,1,10#
	03854		16758		03	180		TF	PHI&6,L#
	03866		16758			190		Α	PHI&6,PHI-1#
	03878		14556			200		BT	PUTPHI,PHI-1#
	03890		80800			210		TFM	BRC&6 ,BRC&8+
	03902		00462			220		В	BEGIN#
	03910					230		DORG	
	03910	43	03930	17235		240	CONFMT	BD	*&20 ,CHI&10 +
	03922		03962		03			В	CHCHI &12+
	03930				03	260		DORG	# −3 ‡
	03930	31	17224	17236		270		TR	CHI-1 ,CHIE11+
	03942		029J2			280		В	FSCAN&12 , ,5#
	03950					290		DORG	*-3 ‡
	03950	45	09448	17225		300	CHCHI	BNR	CSORN-26 ,CHI+
	03962		11426			310		BTM	ERROR ,7171 ,8‡
	03974		03527			320	RPFMT	TFM	TRANS-1 ,RPT1+
	03986		17212			330	<u>if_i_i_</u>	SF	SYM-1‡
	03998		03997			340		TF	*-1 ,SYM‡
	04010		02912			350		В	FSCAN&12#
	04018		02722			360			* -3 ‡
	04018	22	03491	03995		370	RPT2	S	WIDTH ,RPFMT&21+
	04030		03646			380		BN	PUNCT-12#
	04042		03570			390	RPT1	TFM	TRNSBR&6 ,RPT2#
	04054		03527			400		TFM	TRANS-1 ,FSCAN&12+
_	04066		03997			410		SM	RPFMT&23 ,1 ,10#
10.	04078		03528			420		ВН	TRANS#
<u> </u>	04090		02912			430		В	FSCAN&12+
	04098	• •	02,12	00000		440			*-3*
	03491					450	WIDTH	DS	,EFIND&12‡
	04098	17	09248	000-0		460	HOLL	BTM	CFXN,,10#
	04110		03950			470	HOLL	BT	CHCHI ,CHCHI-1#
	04122		17225			480		CM	CHI,67,10‡
	04134		04238			490		BE	#£104 +
	04146		17225			500		CM	CHI,48,10‡
	04158		03974			510		BNE	RPFMT#
	04170		03574			520		BTM	WIDTST , ,10+
	04170		03551			530		TFM	TRANS&23, HTYPE+
	04162					540		TFM	
	04206		17224			550		TR	CHI-1, CHI&1+
	04208		03570			560		TFM	TRNSBR&6,HCONT1#
	04216		03528			570		В	TRANS#
	04230	47	03026	00000		580			#-3+
		17	03574	000-0		590		BTM	104
	04238 04250			-3654		600		TFM	TRANS&23 ,XTYPE+
						610		TFM	HOLL1811 ,HCONT4824#
	04262		04329						
	04274	49	04218	00000		620		BOOK	*-56+ *-3+
	04282	1.	03530	000 3		630	UCONT1		
	04282		03539			640	HCCNT1		TRANS&11,2,10#
	04294			00000		650		SF	SYM-1+
	04306		03551			660	110111	TF	TRANSE23, SYM#
	04318		03570			670	HOLL1	TFM	TRNSBR&6, HCONT2#
	04330	49	03528	00000		680		BOOK	TRANS#
	04338			12000		690			#-3#
_	04338	31	17224	17226	<u>03</u>	700	HCONT3	1 K	CHI-1,CHIE1#

0435C 16 C3570 -4322 03 710 HCGNT2 TFF TRNSRR66,HCGNT44 04362 12 17213 C60-1 03 750 B TRNSS 04382 12 17213 C60-1 03 750 HCGNT4 SF SFF, 1,104 04384 60 64388 C10C 03 760 B FRNSS 04406 16 C3539 C00-5 03 770 B FRNSS 04406 16 C3539 C00-5 03 770 B FRNSS 04418 49 02900 C0000 03 780 B FSCAN* 04425 11 03 800 FNTSP DC 11,749000000# 04436 15 C0699 CC004 03 810 DTM TDM DSWCH,44* 04448 31 17224 17242 03 820 TR CHI-1,CH1617+ 04468 31 17224 17237 03 850 CDM TR CHI-1,CH1617+ 04486 15 C0699 CC000 03 880 D DGG *-3# 04492 17 04480 00000 03 770 D DGG *-3* 04492 18 04900 CC000 03 880 D DGG *-3* 04492 19 C9602 CC000 03 880 D DGG *-3* 04500 31 17224 17230 03 890 IF TR CHI-1,CH1615+ 04500 03 880 DGG *-3* 04500 31 17224 17230 03 890 IF TR CHI-1,CH165* 04512 16 16972 CC009 03 900 TFM PH16220,49,10* 04524 16 11523 CC009 03 910 TFM PH16220,49,10* 04536 15 C0697 CC001 03 920 TFM PH16220,49,10* 04536 15 C0697 CC001 03 900 TFM PH16220,49,10* 04548 03 17212 CC000 03 900 TFM PH16220,49,10* 04564 03 1720 CC000 03 900 TFM PH16220,49,10* 04524 16 11523 CC000 03 900 TFM PH16220,49,10* 04526 17 04060 000 03 900 TFM PH16220,49,10* 04526 18 150097 CC001 03 920 TDM FSTSW,14* 04568 03 17210 CC000 03 900 FF FSW-14 04568 03 17210 CC000 03 900 FF FSW-14 04568 03 17210 CC000 03 900 FF FSW-14 04568 03 17212 CC000 03 900 FF FW DM16,49,10* 04526 19 10 040 040 B B SCSANS12* 04569 03 1720 CC000 03 900 FF FW DM16,49,10* 04526 10 040 040 B B SCSANS12* 04560 040 040 B B SCSANS12* 0460 040 040 C F SYM-34 0460 040 040 C F SYM-34 0460 040 040 04	LOCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARK	S PAGE	8
04362 26 C3551 17225 03 720											
04374 49 03528 CC000 03 730 B TRANS\$ 04382 12 17213 C00-1 03 750 HC0NT4 SP DERG*-3\$ 04392 46 C4338 C1100 03 760 BP HCONT3 HCONT4 SP SYP*,1,10\$ 04406 16 03539 C00-5 03 770 TFM TRANS\$11,5,10\$ 04408 49 02900 CC000 03 780 BP HCNT4 04418 49 02900 CC000 03 780 BF SCAN\$ 04435 11 03 800 FRTSP DC 11,749000000\$ 04436 15 C0699 CC004 03 810 CTM TDM DMSWCH,44 04448 31 17224 17242 03 820 TR CTM CH1-1,CH1&17\$ 04468 01 70 0609 CC000 03 850 CDMM TR CH1-1,CH1&17\$ 04468 15 C0699 CC000 03 860 TDM DMSWCH ,4 ,11\$ 04480 15 C0699 CC000 03 860 TDM DMSWCH ,4 ,11\$ 04480 15 C0699 CC000 03 860 TDM DMSWCH ,4 ,11\$ 04500 31 17224 17230 03 890 DRG *-3\$ 04500 31 17224 17230 03 890 DRG *-3\$ 04500 31 17224 17230 03 890 DRG *-3\$ 04500 31 17224 17230 03 890 TFM PHI&220,49;10\$ 04501 11 1525 CC000 03 900 TFM PHI&220,49;10\$ 04536 15 C0697 CC001 03 920 TDM FSTSW,1\$ 04536 15 C0697 CC001 03 920 TDM FSTSW,1\$ 04556 49 11526 CC000 03 900 SF FSWCH 04568 33 17212 CC000 03 900 SF FSWCH 04568 33 17212 CC000 03 900 CFF SYM-1\$ 04568 33 17210 CC000 03 900 CFF SYM-1\$ 04568 33 17210 CC000 03 900 CFF SYM-1\$ 04568 13 17210 CC000 03 900 CFF SYM-1\$ 04668 14 17213 M661 04 000 CFF SYM-1\$ 04668 17 11426 C-070 04 010 BFF TSSWCH 04668 17 11426 C-070 04 010 BFF TSSWCH 04668 17 11426 C-070 04 010 CFF SYM-1\$ 04668 18 112910 TO000 04 100 CFF SYM-1\$ 04668 11 17210 CC000 05 17 04 050 FFF TSSWCH 04668 11 17111 TSSRCH 04708 11 1720 CC000 04 100 CFF SYM-1\$ 04668 11 1711 TSSRCH 04708 11 1720 CC000 04 100 CFF SYM-1\$ 04708 11 1720 CC000 04 100 CFF SYM					03						
04382 12 17213 000-1 03 750								В			
04382 12 17213 CGO-1 03 750 HCONT4 SF SYM,1,104 HO4394 46 C4338 C1100 03 760 BP HCONT3 HP HCONT3	04382	•						DORG	*-3 ‡		
04394 46 04338 C1100 C3 76C BP HCONT3+ 04408 49 02900 C0000 03 780 B FSCAN+ 04425 11 C3 800 FMTSP DC 11,749000000# 04436 15 C0699 CC004 03 810 DTM TDM DMSWCH,4# 04448 31 17224 17242 03 820 TR CHI-1,CHI617+ 04448 31 17224 17242 03 880 DDR FR S-3# 04460 49 90602 C0000 03 830 B CS# 04468 31 17224 17236 03 850 CDMM TR CHI-1,CHI617+ 04460 15 00699 CC000 03 860 DDR S-3# 04468 15 00699 CC000 03 860 TDM DWSWCH,4# 04492 49 90602 C0000 03 870 B CS# 04500 31 17224 17230 03 890 FMTSP DC HI-1,CHI65# 04510 16 16972 C0099 03 910 TFM PHI6220,49,10# 04524 16 161523 C0099 03 910 TFM PHI6220,49,10# 04524 16 11523 C0099 03 910 TFM PHI6220,49,10# 04524 16 11523 C0009 03 930 SF IFSWCH+ 04560 49 11526 C0000 03 930 SF IFSWCH+ 04560 33 17210 C0000 03 950 DDRC *-3# 04560 33 17210 C0000 03 950 DDRC *-3# 04560 33 17212 C0000 03 960 CF SYM-1# 04560 33 17212 C0000 03 960 CF SYM-1# 04560 33 17210 C0000 03 970 CF SYM-5# 04560 33 17210 C0000 03 970 CF SYM-5# 04560 33 17210 C0000 03 970 CF SYM-5# 04560 17 11426 0-076 04 020 ER6 BTM ERROR ,76 ,8# 04604 07 11426 0-076 04 020 ER6 BTM ERROR ,76 ,8# 04604 07 11426 0-076 04 020 ER6 BTM ERROR ,76 ,8# 04664 07 04756 C11CC 04 070 BNH *&600+ 04762 14 17237 C0009 04 100 CM CHI612,69,104 04764 04 0475 C11CC 04 070 BNH *&600+ 04760 17 11426 C-077 04 120 ER7 BTM ERROR ,77 ,8# 04760 16 05067 C0000 04 100 CM CHI612,69,104 04760 17		12	17213	000-1			HCONT4	SM	SYM,1,10#		
04406 16 05399 000-5 03 770											
04418 49 02900 CC000 03 780 B FSCAN* 04435 11 03 800 FMTSP DC 11,74900000@# 04436 15 C0699 CC004 03 810 DTM TDM DMSWCH,44 04448 31 17224 17242 03 820 TR CHI-1,CHI&IT* 04460 49 99602 C0000 03 830 B CS* 04468 31 17224 17236 03 850 CDMM TR CHI-1, CHI&II* 04468 11 17224 17236 03 850 CDMM TR CHI-1, CHI&II* 04468 31 17224 17236 03 850 CDMM TR CHI-1, CHI&II* 04460 49 99602 C0000 03 860 TDM DMSWCH ,4 ,11‡ 04492 49 09602 C0000 03 870 B CS* 04500 03 880 DCR							······································			·	
04425											
04435											
04436 15 00699 0C004 03 810 DIM TDM DMSMCH,4* 04440 49 09602 00000 03 830 B CS+ 04468 31 17224 17236 03 850 CMM TR CHI-1, CHIE11* 04460 15 00699 0C000 03 860 TDM DMSMCH ,4 ,11* 04480 15 00699 0C000 03 860 DORG *-3* 04500 03 880 DORG *-3* 04500 03 880 DORG *-3* 04500 13 17224 17230 03 890 F TDM DMSMCH ,4 ,11* 04500 03 880 DORG *-3* 04500 15 11523 0C009 03 910 TFM DMSMCH ,4 ,11* 04524 16 11523 0C009 03 910 TFM DMSMCH ,4 ,11* 04524 16 11523 0C009 03 910 TFM DMSMCH ,4 ,11* 04524 16 11523 0C009 03 910 TFM DMSMCH ,4 ,11* 04568 32 00702 0C000 03 930 SF IFSMCH* 04568 04 9 11526 0C000 03 940 B ASCANS12* 04568 03 17210 0C000 03 960 CF SYM-3* 04568 03 17210 0C000 03 970 CF SYM-3* 04568 03 17210 0C000 03 970 CF SYM-3* 04664 31 17264 0C000 03 970 CF SYM-5* 04664 31 17264 0C000 03 970 CF SYM-5* 04666 17 11426 0-076 04 020 FR6 BTM ERROR ,76 ,8* 04662 17 11426 0-076 04 020 FR6 BTM ERROR ,76 ,8* 04663 10 0000 05177 04 050 IFSS TR OUT ,1FSSRC‡ 04664 14 17237 0C000 04 060 CM			11				EMTSP			,	
04448 31 17224 17242 03 820 TR CHI-1,CHIE17‡ 04468 31 17224 07000 03 830 B CS‡ 04468 31 17224 17236 03 850 COMM TR CHI-1 ,CHIE11‡ 04480 15 00699 CCCCM 03 860 TDM DMSMCH ,4 ,11‡ 04492 49 09602 C0000 03 870 B CS‡ 04500 03 880 DDRG *-3‡ 04500 31 17224 17230 03 890 IF TR CHI-1,CHIE5‡ 04512 16 16972 C00M9 03 900 TFM PHIE220,499;10‡ 04524 16 11523 CCOM9 03 910 TFM DHIE220,499;10‡ 04536 15 00697 C0001 03 920 TDM FSTSW,1‡ 04536 15 00697 C0001 03 920 TDM FSTSW,1‡ 04548 32 00702 C0000 03 940 B ASCANB12‡ 04560 49 11526 CCO00 03 940 B ASCANB12‡ 04568 33 17212 CCO00 03 960 CF SYM-1‡ 04568 33 17212 CCO00 03 960 CF SYM-1‡ 04568 33 17210 CCO00 03 980 CF SYM-1‡ 04604 33 17206 CCO00 03 980 CF SYM-5‡ 04604 17 11246 0-076 04 010 BE IFSS\$ 04602 31 17208 CCO00 03 980 CF SYM-7‡ 04616 24 17213 04661 04 000 C SYM,SENSE88‡ 04662 17 11426 0-076 04 020 ER6 BTM ERROR ,76 ,8‡ 04672 31 00000 05177 04 050 IFSS TR R CHI-1,CHIE12‡ 04672 31 17204 CCCCC 09 04 060 FSS TR R CHIE12† 04674 17 11426 0-076 04 020 ER6 BTM ERROR ,76 ,8‡ 04672 31 17204 CCCCC 09 04 060 FSS TR CHIE12† 04674 17 11426 0-076 04 050 IFSS TR OUT ,IFSSRC‡ 04694 14 17237 CCCCCP 04 050 IFSS TR OUT ,IFSSRC‡ 04694 14 17237 CCCCCP 04 050 IFSS TR OUT ,IFSSRC‡ 04696 27 04756 011CC 04 070 BNH *6604* 04768 16 05057 00000 17237 04 050 IFSS TR OUT ,IFSSRC‡ 04768 16 05057 00000 17237 04 050 IFSS TR OUT ,IFSSRC‡ 04768 16 05057 00000 04 100 BH *6204* 04768 17 14266 00000 04 100 BH *6204* 04768 17 14266 00000 04 100 BH *6204* 04768 17 14267 00000 07 1000000000000000000000000000		15		00004							
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	DCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 9
	4916		00000			280		TR	OUT ,IFRCFL+
	4928		00006			290		Α	OUT&6 ,L‡
	4940	49	04960	00000		300		В	* £20 *
	4948					310			*-3‡
	4948		00000			320		TR	OUT ,IFRCFX+
	4960		05936			330		TEM	KKE6 ,OUTE41+
	4972		J7224			340	ELEVEN		CHI-1,CHI&1,2#
	4984		05918			350		BTM	STATNO, * & 12 +
	4996		05936			360		CM	KK&6 ,OUT&41‡
	5008		05032			370		DNE	*824‡
	5020		05936			380		TEM	KK&6 ,OUT&5‡
0	5032	11	05936	000J2		390		AM	KK&6,12,10‡
0	5044		04972			400		BNR	ELEVEN, CHI&2+
0	5056	17	14522	000M4	04	410	THAT	BTM	PUTX,44,10#
0	5068		05067			420	·	TEM	*-1,44,10
0	5080	49	00462	00000	04	430		В	BEGIN#
0	5088					440			#−3‡
0	5088	43	-0024	00053		450	IFRCFL	BD	24,FAC-7,2‡
C	5100		00000			460		В	‡
C	5112	44	00000	C0060.	04	470		BNF	,FAC+
0	5124	49	00000	00000	04	480		В	4
0	5132				04	490		DORG	*-3‡
C	5132		00060			500	IFRCFX		FAC,,8#
0	5144	46	00000	01200	04	510		ВE	‡
0	5156	46	00000	01100	04	520		BH	#
0	5168	49	00000	00000	04	530		В	‡
0	5176				04	540		DORG	*-3 ‡
	5176		1		()4	550		DC	1, a ‡
	5177		1		04	560	IFSSRC	DC	1,4‡
	5188		11			570		DC	11,600000000000
	5197		9		04	580		DC	9,49000000a‡
	5198	31	17224	17228		590	DO	TR	CHI-1,CHI&3+
	5210		09248			600		BTM	CFXN, *&12‡
	5222		05239			610		TF	*817,SMTLU1810+
	5234		00004			620		SM	4,36,10‡
	5246		17225			630		CM	CHI,23,10‡
	5258		05282			640		BNE	*624‡
	5269		1	012.00		650		DC	1,0, *+
		17	_	0-078				BTM	
	5282			-5294		670		BTM	CSORN, *612*
	5294			05305		680		TF	OUTE11 ,*E11 ,0‡
	5306			08427		690		TF	GUTE6 ,SMCNT+
	5318		05605			700		TF	DSADO ,SMCNT+
	5330		05620			710		TFM	DSADG&15,1,8‡
	5342		05444			720		TEM	KAY86,DSADO‡
				17226		730	ELL	TR	CHI-1,CHIE1#
	15354 15366			CCOPO		740	- 	CM	CHI,70,10#
	5378			01300		750		BNL	*824
				-5 4 26		760		BIM	CSORN, *836+
	5390 5402			000-0		770		BIM	CFXN,,10‡
^						780		TF	SMCNT, SYM#
	5414			17213 -0005		790		AM.	*618,5‡
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0	5426		05444				VAV	TE	- CMCNT ±
0 0 0	5438	26	00000	08427	04	800	KAY	TF	,SMCNT #
0 0 0		26 45	00000 053 5 4		04		KAY	TF BNR TF	,SMCNT # ELL,CHI&2 # OUT&11 ,DSADO&5 #

Q PG LN LABEL MNEM OPERANDS AND REMARKS PAGE 10 C 008 04 830 BNF *&24 ,0UT&8 + 00J 04 840 TDM OUT ,1 ,11 + 0J2 04 850 BTM PUTX,12,10 + 135 04 860 TF DSADO&5,L + 564 04 862 TF *&35 ,EMM&6 + 0J9 04 864 AM *&23 ,19 ,10 + 000 04 866 BNR NOSPCE + 601 04 870 EMM TR ,DSADO-4 + 020 04 880 AM *-6,20 + 582 04 890 TF SMCNT,MEMCAP-1 + 000 04 900 B BEGIN + 000 04 920 DSADO DSA 0,0,0 + 000 04 920 DSADO DSA 0,0,0,0 + 000 04 920 DSADO BE COMPUT ,GGG + 04 930 DC 1,
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224 05 100 BD COMPUT&24,CHI-1*
135 05 110 A PHI&35,L‡
135 05 120 A 42&PHI,L#
135 05 130 A 548PHI,L#
228 05 140 TR CHI-1,CHI&3‡
870 05 150 BTM CSORN, * &12+
000 05 160 TDM SBSWCH, 0+
427 05 170 TF PHI&6, SMCNT#
751 05 180 BT PUTPHI,PHI-1#
000 05 190 B BEGIN‡
930 05 200 STATNO BTM CFXN, *&12+
426 05 210 KK TF ,SMCNT-1#
346 05 220 TF *&22,SMTLU1&10‡
005 05 230 BNF *&32,5 ‡
917 05 240 TF +618,STATNO-1+
000 05 250 B ‡
05 260 DORG #-4‡
346 05 270 TF *&22,SMTLU1&10\$
004 05 280 BNF *620,4 ‡
000 05 290 B KK&36‡
05 300 DORG *-3‡
346 05 310 TF #&17,SMTLU1&10‡

| 06030 16 00005 -0090 05 320 TFM 5,904 06042 49 05966 00000 05 330 B KK6364 06060 17 06482 -6062 05 350 B GEPRO BTM GETNO, =612+ 06062 17 06482 -6062 05 350 B TM OUT , BEREC+ 06062 31 00000 06598 05 360 TR OUT , BEREC+ 06062 17 14522 00036 05 380 BTM PUTX,16,104 06068 26 06115 08346 05 390 TF | C6042

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| 06074 21 00005 08426 05 370 A OUT65 ;SMCNT-1‡ 06088 26 06115 08346 05 380 BTH PUTX,16,10‡ 06102 26 00004 16135 05 400 TF 4,1‡ 06112 26 00004 16135 05 400 TF 4,1‡ 06122 26 00088 08427 05 410 TF 88;SMCNT+ 06134 26 16290 16135 05 420 TF BRINST66,1‡ 06146 33 16286 00000 05 430 CF BRINST62‡ 06158 31 00089 16346 05 440 TR 89,CRAM-3‡ 06170 31 00091 16284 05 450 TR 91,BRINST‡ 06182 31 00098 16347 05 460 TR 98,CRAM-2‡ 06182 31 00098 16347 05 460 TR 98,CRAM-2‡ 06192 27 14868 14867 05 470 BT COMEO,COMEO-1‡ 06206 21 00006 16135 05 480 A OUT66 *1.‡ 06212 26 00010 08426 05 490 TF OUT810 *SMCNT-1‡ 06220 17 14522 00002 05 500 BTM PUTX,12,10‡ 06230 17 14522 00002 05 500 BTM PUTX,12,10‡ 06250 00250 32 06770 00000 05 540 ENDPRO SF XETURN+ 06262 49 00462 00000 05 540 BXETURN 62 *3* 06270 30 66282 00000 05 550 BTM PUTX,12,10† 06270 31 00001 16345 05 570 BTM GETNO,*E12‡ 06271 31 00001 1635 05 500 BTM PUTX,12,10† 06272 31 06270 00000 05 560 BTM PUTX,12,10† 06274 31 00000 06060 05 580 ENDPRO SF XETURN+ 06270 30 6670 00000 05 560 BTM PUTX,12,10† 06318 10 0000 0004 05 560 BTM GETNO,*E12‡ 06330 17 14522 000-8 05 610 BTM GETNO,*E12‡ 06331 17 00068 00004 05 600 BTM PUTX,12,10† 06318 10 0000 00004 05 600 BTM PUTX,12,10† 06378 26 16141 08427 05 630 TF LODER,*SMCNT+ 06378 26 16141 08427 05 630 TF LODER,*SMCNT+ 06378 26 16141 08427 05 630 TF LODER,*SMCNT+ 06482 49 00462 00000 05 670 BTM GETNO,*E12‡ 06494 11 1725 0000-8 05 600 BTM GETNO,*E12† 06496 12 16141 0000 05 670 BTM GETNO,*E12† 06496 12 16141 0000 05 670 BTM GETNO,*E12† 06497 11 14522 0000-8 05 700 TR OUT F CHIPT,*OUTF,*OU | 06074 21 00005 08426 05 370 A DUTES SMCNT-1# 06080 26 06115 08346 05 390 FF #217,SMTLU1E10# 06102 26 00004 16135 05 400 FF #1,L# 06112 26 00088 08427 05 410 FF #8,SMCNT+ 06134 26 16290 16135 05 420 FF BRINST66.L# 06146 33 16286 00000 05 430 CF BRINST62# 06158 31 00089 16346 05 440 FR 99,CRAM-3# 06182 31 00098 16347 05 460 FR 99,CRAM-3# 06182 31 00098 16347 05 460 FR 99,CRAM-3# 06182 31 00098 16347 05 460 FR 99,CRAM-2# 06192 47 14868 14867 05 470 BT COMEGO-COMEGO-1# 06206 21 00006 16135 05 480 A DUTE6 L# 06218 26 00010 08426 05 490 FF DUTE10 SMCNT-1# 06230 17 14522 00032 05 500 BTM PUTX,12,10# 06242 49 00462 00000 05 530 ENDPRO SF XETURN# 06250 32 06270 00000 05 540 BEGIN# 06264 09 06282 00000 05 540 BEGIN# 06270 05 550 DURG -3# 06270 05 550 DURG -3# 06270 10 06060 05 560 XETURN CF XETURN# 06281 17 10452 00008 05 560 XETURN CF XETURN# 06282 17 06482 -6294 05 570 ENDPRO SF XETURN# 062830 17 14522 00008 05 560 XETURN CF XETURN# 06294 31 00000 06606 05 580 TR DUTE 0 SETURN# 06295 32 0670 00000 05 560 XETURN CF XETURN# 06296 21 00006 16135 05 660 BT R DUT N, BEREC&# 06290 17 14522 000-8 05 610 BTM PUTX, 8, 10# 06306 12 16141 08020 05 660 BT R DUT N, BEREC&# 06330 17 14522 000-8 05 610 BTM PUTX, 8, 10# 06342 40 00462 06270 05 600 A DUTE6 -4# 06366 12 16141 08020 05 660 BT BEGIN#ETURN# 06364 12 16141 08020 05 660 BT BEGIN#ETURN# 06364 12 16141 08020 05 660 BT BEGIN#ETURN# 06482 31 00000 06667 05 600 BTM BEGIN, KETURN# 06492 17 1420 14819 05 660 BT BEGIN, KETURN# 06492 17 1420 14819 05 660 BT BEGIN, KETURN# 06492 17 1420 14819 05 660 BT BEGIN, KETURN# 06492 17 1420 14819 05 660 BT BEGIN, KETURN# 06492 17 1420 0000 05 670 BEGIN TR OUT EXXECT# 06492 17 1420 14319 05 660 BT BEGIN, KETURN# 06492 17 1420 0000 05 670 BEGIN TR OUT EXXECT# 06492 17 1420 0000 05 670 BEGIN TR OUT EXXECT# 06492 17 1420 14319 05 660 BT BEGIN, KETURN# 06590 49 98765 0000 05 770 BMH =244 06492 17 1420 0000 05 670 BMH =244 06493 02 66570 05 790 TF EXXECT# 06590 49 98765 0000 05 840 BT F EXXECT# 06590 49 98765 0000 05 840 BT F EXXECT# 06590 49 98765 0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>BEO! 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640 B M BEGIN,XETURN+ 06330 17 14522 00000 05 640 BTM BUTX,12,104 06342 44 00462 06270 05 620 BNF BEGIN,XETURN+ 06366 12 16141 08000 05 640 BTM BUTX,12,104 06361 12 1641 08000 05 640 BTM BUTX,12,104 06370 27 14820 14819 05 660 BTM BUTX,12,104 06446 17 14522 0000 05 670 BTM GETNO,*612* 06494 31 00000 06667 05 670 BTM GETNO,*612* 06494 31 00000 06667 05 670 BTM GETNO,*612* 06366 12 16141 08000 05 640 BTM BUTX,12,104 06361 12 1641 16350 05 770 BTM GETNO,*612* 06494 17 14522 0000 05 670 BTM GETNO,*612* 06496 17 14522 0000 05 670 BTM GETNO,*612* 064</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06100 26 00004 16135 05 400 06110 26 00004 16135 05 400 06122 26 00088 08427 05 410 06122 26 00088 08427 05 410 06124 26 16290 16135 05 420 06134 26 16290 16135 05 420 06138 31 00089 16346 05 420 06138 31 00089 16346 05 440 06170 31 00091 16284 05 450 06182 31 00098 16347 05 460 06182 31 00098 16347 05 460 06182 31 00098 16347 05 460 06182 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610 BTM PUTX,8,10* 06366 12 16141 02427 05 630 TF LODER,SMCNT* 06367 26 16290 16135 05 650 TF BRINST66.L* 06390 27 14820 14819 05 660 BT BOORG *-3* 06402 49 00462 00500 05 670 BRIN BEGIN,ETURN\$4 06416 0544 0062 05600 05 670 BRIN BEGIN,ETURN\$4 06416 05600 0004 05 640 BTM PUTX,8,10* 06416 05600 0004 05 670 BB BEGIN,ETURN\$4 06416 05600 0005 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 0000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 0000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 0000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 0000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 0000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 0000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 0000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 0000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 00000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 00000 05 670 BB BEGIN,ETURN\$4 06416 07 06482 6420 00000 05 670 BB
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GETNO,*&12* 06446 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12* 06446 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12* 06446 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12* 06450 17 14522 00000 05 670 BB BEGIN* 06460 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12* 06450 17 14525 00000 05 740 BTM GETNO,*&12* 06450 17 14525 00000 05 740 BTM GETNO,*&12* 06450 17 06482 -6576 0346 05 700 TF</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06158 31 00089 16346 05 440 TR 89,CRAM-3‡ 06170 31 00091 16284 05 450 TR 91,BRINST‡ 06182 31 00098 16347 05 460 TR 98,CRAM-2‡ 06194 27 14868 14867 05 470 BT COMGG,COMGG-1‡ 06206 21 00006 16135 05 480 A OUT&& .L‡ 06218 26 C0010 C8426 05 490 TF GUT&IO .SMCNT-1‡ 06230 17 14522 C00012 05 500 BTM PUTX,12;10‡ 06242 49 00462 C0000 05 510 B BEGIN† 06250 32 06270 C0000 05 510 B BEGIN† 06250 32 06270 C0000 05 540 B EXTURN 12 B BEGIN† 06270 33 06270 C0000 05 540 B KETURN 2 B BEGIN† 06270 33 06270 C0000 05 560 KETURN CF 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98,CRAM-2‡ 06194 27 14868 14867 05 470 BT COMGO,CDMGO-1‡ 06206 21 00006 16135 05 480 A UTE6 1. L‡ 06218 26 00010 68426 05 490 TF UTE10 ,SMCNT-1‡ 06220 17 14522 00012 05 500 BTM PUTX,12,10‡ 06230 17 14522 00002 05 510 B BEGIN‡ 06250 32 06270 00000 05 550 DDRG *-3‡ 06242 49 06282 0000 05 540 B XETURN\$12‡ 06270 05 550 DDRG *-3‡ 06270 05 550 DDRG *-3‡ 06270 33 06270 00000 05 560 XETURN CF XETURN\$ 06282 17 06482 -6294 05 570 BTM GETND,*&12‡ 06294 31 00000 06000 05 580 TR DUT ,BEREC68\$ 06308 26 6328 68346 05 590 TF &22,SMTLU\$10\$ 06318 12 00000 0000 000 04 05 600 A UTE6 1 06330 17 14522 000-8 05 610 BTM PUTX,8,10\$ 06340 40 00462 66270 05 620 BMF BEGIN,*XETURN\$ 06334 26 16141 08427 05 630 TF LODER,SMCNT\$ 06366 12 16141 08427 05 630 TF BEGIN,XETURN\$ 06390 27 14820 14819 05 660 BT BGO,BGO-1\$ 06410 05 680 BY BEGIN,* 06410 07 06462 -6422 05 690 EXPROC BTM GETND,*&12‡ 06434 26 00000 06462 05 600 BT BGO,BGO-1\$ 06410 06400 06600 05 660 BT BGO,BGO-1\$ 06410 06400 06600 05 670 DDRG *-3\$ 06436 26 00000 0642 05 750 TF BRINSTEG,L\$ 06446 21 00011 16135 05 650 TF BRINSTEG,L\$ 06446 21 00010 16135 05 650 TF BRINSTEG,L\$ 06458 17 14522 00000 05 740 BTM GETND,*&12‡ 06458 17 14522 00000 05 740 BTM GETND,*&12‡ 06458 17 14522 00000 05 740 BTM GETND,*&12‡ 06458 17 14522 00000 05 770 BTM GETND,*&12‡ 06596 49 06640 00000 05 770 BTM GETND,*&12‡ 06596 49 06640 00000 05 770 BTM GETND,*&12‡ 06596 49 06660 00000 05 780 BTM CFNN,*&12‡ 06597 06597 00000 05 830 TF \$830 BTM CFNN,*&12† 06597 09 8765 00000 05 830 TF \$830 BTM CFNN,*&12† 06597 09 8765 00000 05 830 TF \$830 BTM CFNN,*&12†</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06170 31 00091 16284 05 450 TR 91,BRINST* 06182 31 00098 16347 05 460 TR 98,CRAM-2* 06194 27 14868 14867 05 470 BT CMGG,COMGO-1* 06206 21 00006 16135 05 480 A OUT&6 ,L* 06218 26 C0010 08426 05 490 TF OUT&10 ,SMCNT-1* 06230 17 14522 00002 05 500 BTM PUTX,12,10* 06230 17 14522 00000 05 510 B BEGIN* 06250 05 520 DORG *-3* 06250 32 06270 00000 05 530 ENDPRO SF XETURN* 06262 49 06282 00000 05 540 B XETURN&12* 06270 05 550 DORG *-3* 06270 00 05 550 BTM GETNO,** 06270 00 05 550 BTM GETNO,** 06270 10 05 550 BTM GETNO,** 06270 10 05 550 BTM GETNO,** 06270 11 06482 -6294 05 570 BTM GETNO,** 06294 31 00000 06506 05 580 TR OUT ,BBRECE&* 06306 26 06328 08346 05 590 TF *622,SMTLU1610* 06318 21 00006 00004 05 600 A OUT&6 ,4* 06342 44 00462 06270 05 620 BNF BEGIN,XETURN* 06342 44 00462 06270 05 640 SM LODER,** 06378 26 16290 16135 05 650 TF LODER,** 06378 26 16290 16135 05 660 BT BGO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,** 06518 17 14522 00000 05 770 BNH =-24* 06530 26 06571 08346 05 790 TF *641,** 06540 49 06640 00000 05 770 BNH =-24* 06550 49 08650 0000 05 860 BEREC B 10,,25*</td><td>06170 31 00091 16284 05 450 TR 91,BRINST‡ 06182 31 00098 16347 05 460 TR 98,CRAM-2‡ 06194 27 14868 14867 05 470 BT COMGO,COMGO-1‡ 06206 21 00006 16135 05 480 A OUT& LL* 06218 26 00010 68426 05 490 TF OUT&10 ,SMCNT-1‡ 06230 17 14522 00012 05 500 BTM PUTX,12,10‡ 06230 17 14522 00012 05 500 BTM PUTX,12,10¢ 06250 05 520 DURG *-3‡ 06250 05 520 DURG
*-3‡ 06250 05 520 DURG *-3‡ 06250 05 550 BTM SETURN\$ 06250 05 550 DURG *-3* 06270 05 550 DURG *-3* 06270 05 550 DURG *-3* 06270 33 06270 00000 05 550 SETURN SETURN\$ 06262 17 06482 -6294 05 570 BTM GETNO,*&12\$ 06294 31 00000 06606 05 580 TR OUT BEREC&8\$ 06306 26 06328 08346 05 590 TF *&22.SMTLU1&10\$ 06318 21 00006 00004 05 600 A UT&6 ,4\$ 06330 17 14522 000-8 05 610 BTM PUTX,8,10\$ 06342 44 00462 06270 05 620 BNF BEGIN,ETURN\$ 06366 12 16141 00010 05 640 SM LODER,10,10\$ 06378 26 16290 16135 05 650 TF BRINST&6,1\$ 06378 26 16290 16135 05 650 BT BOURG *-3\$ 06370 27 14820 14819 05 660 BT BOURG *-3\$ 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$ 06440 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$ 06440 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$ 06440 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$ 06454 17 14522 000-0 05 700 BTM PUTX,12,10\$ 06446 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$ 06494 14 17225 00000 05 700 BTM PUTX,12,10\$ 06494 14 17225 00000 05 700 BTM PUTX,12,10\$ 06494 14 17225 00000 05 700 BTM PUTX,12,10\$ 06496 17 14820 14819 05 600 BTM PUTX,12,10\$ 06497 17 18820 14819 05 600 BTM PUTX,12,10\$ 06498 17 14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06182 31 00098 16347 05 460 TR 98,CRAM-2‡ 06194 27 14968 14967 05 470 BT COMGO,COMGO-1‡ 06206 21 00006 16135 05 480 A OUT66 ,L‡ 06218 26 0010 02826 05 490 TF OUT810 ,SMCNT-1‡ 06230 17 14522 000J2 05 500 BTM PUTX,12;10‡ 06230 17 14522 000J2 05 510 B BEGIN‡ 06250 05 520 DORG *-3‡ 06250 32 06270 00000 05 530 ENDPRO SF KETURN‡ 06262 49 0642 00000 05 540 B KETURN\$ 06270 00000 05 560 KETURN CF KETURN\$ 06270 00000 05 560 KETURN CF KETURN\$ 06282 17 06482 -6294 05 570 BTM GETNO,*\$12‡ 06294 31 00000 06606 05 580 TR OUT BEREC68\$ 06306 26 06328 08346 05 590 TF *622,SMTLUIEI0\$ 06318 21 00006 00004 05 600 A OUT66 ,4\$ 06330 17 14522 000-8 05 610 BTM PUTX,8,10\$ 06342 44 00462 06270 05 620 BTM BEGIN,XETURN\$ 06354 26 16141 08427 05 630 TF LODER,SMCNT\$ 063618 26 16290 16135 05 650 TF BERNSTE6,L\$ 06362 49 00462 00000 05 640 BTM BEGIN,XETURN\$ 06363 27 14921 14919 05 660 BT BEGIN\$ 06364 29 00462 00000 05 670 BTM BEGIN\$ 06402 49 00462 00000 05 670 BTM BEGIN\$ 06402 49 00462 00000 05 670 BTM BEGIN\$ 06406 24 00462 00000 05 670 BTM BEGIN\$ 06406 27 00462 00000 05 670 BTM BEGIN\$ 06406 00000 05 670 BTM BEGIN\$ 06406 00000 05 670 BTM BEGIN\$ 06506 05 05 05 05 05 05 05 05 05 05 05 05 05</td><td>06182 31 00098 16347 05 460 TR 98,CRAM-2‡ 06194 27 14868 14867 05 470 BT COMGO,CDMGO-1‡ 06206 21 00006 16135 05 480 A OUT&6 *L‡ 06218 26 00010 08426 05 490 TF OUT&10 *,SMCNT-1‡ 06230 17 14522 00002 05 500 BTM PUTX,12;10‡ 06242 49 00462 00000 05 510 B BEGIN‡ 06250 32 06270 00000 05 530 ENDPRO SF XETURN\$ 06262 49 06282 00000 05 540 B XETURN\$12\$ 06270 05 550 DORG *-3‡ 06270 33 06270 00000 05 550 ENDPRO SF XETURN\$ 06282 17 06482 -6294 05 570 BTM GETNO,*\$612\$ 06294 31 00000 06606 05 580 TR OUT *,BEREC&8‡ 06308 21 00000 0000 05 500 A OUT&6 *,4\$ 06308 21 00000 0000 05 500 BTM PUTX,8,10\$ 06342 44 00462 06270 05 600 A OUT&6 *,4\$ 06342 44 00462 06270 05 640 BTM PUTX,8,10\$ 06354 26 16141 08427 05 630 TF LODER,SMCNT\$ 06366 12 16141 00000 05 640 SM LODER,10,1010\$ 06378 26 16290 16135 05 650 TF BRINST&6,1\$ 06390 27 14820 14819 05 660 BT BGO,8GO-1\$ 06410</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06194 27 14868 14867 05 470 BT COMGO_COMGO_1+ 06206 21 00006 16135 05 480 A OUTE6 , L+ 06218 26 COULO C8426 05 490 TF OUTE10 , SMCNT-1+ 06230 17 14522 00032 05 500 BTM PUTX,12,10+ 06230 17 14522 00000 05 510 B BEGIN+ 06250 06250 05 520 DORG *-3+ 06250 32 06270 00000 05 540 B XETURN\$12+ 06262 49 06282 00000 05 540 B XETURN\$12+ 06270 05 550 DORG *-3+ 06270 05 550 XETURN CF XETURN* 06270 05 550 XETURN CF XETURN\$2+ 06270 13 06270 00000 05 560 XETURN CF XETURN\$4 06270 06271 06482 6294 05 570 BTM GETNO,**812* 06291 17 06482 6294 05 570 BTM GETNO,**812* 06306 26 66328 08346 05 590 TF *822,*SMTLU1610* 06318 21 00006 00004 05 600 A OUTE6 , 4* 06330 17 14522 000-8 05 610 BTM PUTX,8,10* 06342 44 00462 06270 05 620 BNF BEGIN,XETURN* 06342 46 1614 08427 05 630 TF LODER,SMCNT* 06366 12 16141 00030 05 640 SM LODER,10,10* 06378 26 16290 16135 05 650 TF BRINSTEG,1* 06390 27 14820 14819 05 660 BT BGO,BGO-1* 06410 17 06482 6422 05 690 EXPROC BTM GETNO,**812* 06434 26 00005 08426 05 710 TF BRINSTEG,1* 06446 21 00011 6135 05 720 BTM GETNO,**812* 06446 21 00011 6135 05 720 A OUTE11 , L* 06458 17 14522 00030 05 740 BTM GETNO,**812* 06494 14 17225 00090 05 740 BTM GETNO,**812* 06494 14 17225 00090 05 740 BTM GETNO,**812* 06494 14 17225 00090 05 740 BTM GETNO,**812* 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 49 -0010 00000 05 840 BRO FF ** 06598 BRO FF ** 0659</td><td>06194 27 14868 14867 05 470 BT COMGO, COMGO-1# 06206 21 00006 16135 05 480 A OUT66 ,L# 06218 26 00010 08426 05 490 TF OUT810 ,SMCNT-1# 06230 17 14522 00032 05 500 BTM PUTX,12,10# 06230 17 14522 00032 05 500 BTM PUTX,12,10# 06250 05 520 DURG *-3# 06250 32 06270 00000 05 530 ENDRO SF XETURN* 06262 49 06282 00000 05 540 B XETURN\$12# 06270 05 550 DORG *-3# 06270 33 06270 00000 05 550 XETURN CF XETURN* 06282 17 06482 -6294 05 570 BTM GETNO,*\$12# 06294 31 00000 06606 05 580 TR OUT ,BEREC&8# 06306 26 06328 08346 05 590 TF *822,SMTLU1810# 06318 21 00006 00004 05 600 A OUT66 ,4# 06330 17 14522 000-8 05 610 BTM PUTX,8,10# 06342 44 00462 06270 05 620 BNF BEGIN,XETURN* 06354 26 16141 08427 05 630 TF LODER,SMCNT* 063612 16141 08427 05 660 BT BGO,BGO-1# 06378 26 12 16141 00000 05 660 BT BGO,BGO-1# 06378 27 14820 14819 05 660 BT BGO,BGO-1# 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*\$12# 06440 17 06482 -6422 05 690 EXPROC BTM GETNO,*\$12# 06440 17 06482 -6620 05 710 TF OUT6 ,SMCNT+ 06440 17 06482 -6620 05 700 TF BGO,BGO-1# 06410 17 06482 -6620 05 700 TF BGO,BGO-1# 06410 17 06482 -6620 05 700 TF OUT6 ,SMCNT+ 06462 11 00011 16135 05 720 A OUT611 ,L# 06470 49 06462 00000 05 770 BTM GETNO,*\$12# 06470 49 06462 00000 05 770 BTM FETNO,*\$12# 064670 47 06482 -6630 05 780 BTM PUTX,12,10# 06470 49 0640 00000 05 770 BTM FETNO,*\$12# 06470 49 0640 00000 05 770 BTM FETNO,*\$12# 06470 49 0640 00000 05 770 BTM FETNO,*\$12# 06470 49 0640 00000 05 780 BTM PUTX,12,10# 06482 31 17224 17226 05 780 BTM CFIN,*\$12+ 06494 14 17225 0009 05 780 BTM CFIN,*\$12+ 06554 12 06571 08346 05 800 TF *634,\$MTLU1610# 06565 47 06482 C1000 05 780 BTM CFIN,*\$12+ 06578 26 06596 06481 05 800 TF *618,\$MTLU1610# 06579 05 880 BTM CFIN,*\$11+ 06679 0679 07 880 BTM CFIN,*\$11+ 06679 07 98765 0000 05 800 BTM CFIN,*\$11+ 06679 07 987</td><td></td><td>06170</td><td>31</td><td>00091</td><td>16284</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td> C6216 26 C0010 C8426 C5 490 TF CUT610 SMCNT-1 C6230 T7 14522 C0002 C5 510 B BEGIN C6250 C6250 </td><td> 06206 21 00006 16135 05 480 A 0UT&6 1.4 </td><td></td><td>06182</td><td>31</td><td>00098</td><td>16347</td><td>05</td><td>460</td><td></td><td>TR</td><td></td></tr><tr><td> C6218 26 C0010 C8426 C5 5490 BTM DUTX,12,10\$ </td><td> C6218 26 C010 C8426 C5 490</td><td></td><td>06194</td><td>27</td><td>14868</td><td>14867</td><td>05</td><td>470</td><td></td><td>BT</td><td>COMGO,COMGO-1#</td></tr><tr><td> C6218 26 C0010 C8426 C5 490 BTM PUTX,12,10+ </td><td> C621E 26 C0010 C8426 C5 S490 TF DUT&10 SMCNT-1# </td><td></td><td></td><td>21</td><td>00006</td><td>16135</td><td>05</td><td>480</td><td></td><td>A</td><td>OUT&6 ,L‡</td></tr><tr><td>06230 17 14522 00012 05 500 BTM PUTX,12,10‡ 0625C 05 520 DDRG *-3‡ 0625C 05 520 DDRG *-3‡ 0625C 05 530 ENDRO SF XETURN\$ 06262 49 06282 00000 05 530 ENDRO SF XETURN\$ 06262 49 06282 00000 05 550 DDRG *-3‡ 06270 06270 05 550 DDRG *-3‡ 06270 06270 05 550 DDRG *-3‡ 06270 06270 05 550 DDRG *-3† 06270 13 06270 00000 05 560 XETURN CF XETURN\$ 06282 17 06482 -6294 05 570 BTM GETNO,*&12‡ 06294 31 00000 06606 05 580 TR OUT ,BEREC&8‡ 06306 26 06328 08346 05 590 TF *&22,SMTULL\$10‡ 06318 21 00006 00004 05 600 A OUT&6 ,4‡ 06330 17 14522 000-8 05 610 BTM PUTX,8,10‡ 06342 44 00462 06270 05 620 BMF BEGIN,XETURN\$ 06354 26 16141 08427 05 630 TF LODER,SMCNT\$ 06366 12 16141 00000 05 640 SM LODER,10,10\$ 06378 26 16290 16135 05 650 TF BRINST&6,L\$ 06390 27 14820 14819 05 660 BT BGO,BGO-1\$ 06410 05 680 DDRG *-3‡ 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12‡ 06422 31 00000 06627 05 700 TR OUT&1 ,EXREC\$ 06434 26 00005 08426 05 710 TF OUT&5 ,SMCNT-1\$ 06458 17 14522 00012 05 720 A OUT&11 ; 06462 11 17224 17226 05 750 GETNO TR CHI-1,CHI&1‡ 06464 21 00011 16135 05 720 A OUT&11 ; 06470 49 06460 00000 05 770 BTM PUTX,12,10\$ 06494 14 17225 00012 05 730 BTM PUTX,12,10\$ 06516 17 06248 -6530 05 780 BTM CFXN,*&12‡ 06516 17 06248 -6530 05 780 BTM CFXN,*&12‡ 06516 17 06248 -6530 05 780 BTM CFXN,*&12‡ 06554 12 06571 08346 05 800 TF *&24*,SMTLULE10\$ 06577 05 800 DDRG *-4* 06590 49 98765 00000 05 860 BEREC B 10,,25‡</td><td>06230 17 14522 000JZ 05 500 BTM PUTX,12,10\$ 06250 05 520 DORG *-3\$ 06250 32 06270 00000 05 530 ENDPRO SF XETURN\$ 06262 49 06282 00000 05 540 B XETURN\$ 06270 05 550 DORG *-3\$ 06270 05 560 XETURN CF XETURN\$ 06282 17 06482 -6294 05 570 BTM GETNO,*&12\$ 06294 31 00000 06606 05 580 TR OUT ,BEREC&8\$ 06306 26 66328 08346 05 590 TF *622,\$MTLU1&10\$ 06318 21 00000 00004 05 600 A OUT&6 ,4\$ 06330 17 14522 000-8 05 610 BTM PUTX,9,10\$ 06342 44 00462 06270 05 620 BNF BEGIN,XETURN\$ 06354 26 16141 08427 05 630 TF LODER,\$MCNT\$ 06366 12 16141 000J0 05 640 SM LODER,10,10\$ 06378 26 16290 16135 05 650 TF BRINST&6,L\$ 06390 27 14820 14819 05 660 BT BGO,BGO-1\$
06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$ 06440 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$ 06446 21 00011 16135 05 720 A OUT&11 ,L\$ 06446 21 00011 16135 05 720 A OUT&11 ,L\$ 06446 21 00011 16135 05 720 A OUT&11 ,L\$ 06470 49 06640 00000 05 740 B TESTOD\$ 06482 31 17224 17226 05 750 GETNO TR CHI-1,CHI&1 ,L\$ 06490 41 17225 00000 05 740 B TESTOD\$ 06490 41 17225 00000 05 740 B TESTOD\$ 06490 41 17225 00000 05 760 GETNO TR CHI-1,CHI&1 ,L\$ 06490 41 17225 00000 05 740 B TESTOD\$ 06490 41 17225 00000 05 760 GETNO TR CHI-1,CHI&1 ,L\$ 06490 41 17225 00000 05 760 GETNO TR CHI-1,CHI&1 ,L\$ 06490 41 17225 00000 05 760 GETNO TR CHI-1,CHI&1 ,L\$ 06590 49 08765 00000 05 780 BTM CFXN, &12\$ 06571 0000 06671 08346 05 790 TF *6241,SMTLU1&10\$ 06578 26 06576 08346 05 800 TF *6241,SMTLU1&10\$</td><td></td><td></td><td></td><td></td><td></td><td>05</td><td>490</td><td></td><td>TF</td><td>OUT&10 ,SMCNT-1#</td></tr><tr><td>06242 49 00462 00000 05 520 DDRG #-3# 06250 32 06270 00000 05 530 ENDPRO SF XETURN# 06262 49 06282 00000 05 550 DDRG #-3# 06270 13 06270 0000 05 560 XETURN CF XETURN# 06271 33 06270 0000 05 560 XETURN CF XETURN# 06282 17 06482 -6294 05 570 BTM GETNO,*812# 06294 31 00000 06606 05 580 TR OUT ,BEREC&8# 06394 31 00000 06000 05 600 A OUT&6 ,4# 06318 21 00006 00004 05 600 BTM PUTX,8,10# 06318 21 00006 00004 05 600 BTM PUTX,8,10# 06342 44 00462 06270 05 620 BNF BEGIN,*ETURN# 06364 12 16141 08427 05 630 TF LODER,*SMCNT# 06366 12 16141 0000 05 640 SM LODER,*IO,*10# 06378 26 16290 16135 05 650 TF BRINST&6,** 06402 49 00462 00000 05 670 B BEGIN# 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*E12# 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*E12# 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*E12# 06422 31 00000 06627 05 700 TR OUT& ,EXREC# 06434 26 00050 08426 05 710 TF OUT&5 ,SMCNT-1* 06462 11 17225 00002 05 730 BTM PUTX,12,10# 06470 49 06640 00000 05 770 BTM PUTX,12,10# 06494 14 17225 00002 05 750 GETNO TR CHI-1,CHI&1# 06494 14 17225 00002 05 780 BTM CFXN,*E12# 06494 14 17225 00000 05 780 BTM CFXN,*E12# 06518 17 09248 -6530 05 780 BTM CFXN,*E12# 06518 17 09248 -6530 05 780 BTM CFXN,*E12# 06598 26 06576 08346 05 800 TF *E34,SMTLUIE10# 06598 49 9-00J0 00000 05 860 BEREC B 10,,25#</td><td>06242 49 00462 00000 05 510 B BEGIN‡ 06250 32 06270 00000 05 530 ENDPRO SF XETURN‡ 06262 49 06282 00000 05 540 B XETURN612‡ 06270 33 06270 00000 05 560 XETURN CF XETURN‡ 06282 17 06482 -6294 05 570 BTM GETNO,*&12‡ 06306 26 06328 08346 05 590 TF *622,SMTLU1810‡ 06318 21 00006 06006 05 580 TR OUT *BEREC&8‡ 06330 17 14522 000-8 05 610 BTM PUTX,8\$10± 06334 24 00462 06270 05 620 BNF BEGIN,XETURN‡ 06354 26 16141 08427 05 630 TF LODER,SMCNT‡ 06366 12 16141 00000 05 640 SM LODER,10,10¢ 06378 26 16290 16135 05 650 TF BRINST&6,L‡ 06430 27 14820 14819 05 660 BT BGG,BGD-1‡ 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12‡ 06440 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12‡ 06440 29 00462 00000 05 740 B BEGIN,* 06482 31 17224 17226 05 750 GETNO TR OUT *EXREC‡ 06494 14 17225 00000 05 740 BTM PUTX,\$10† 06482 31 17224 17226 05 750 GETNO TR CHI-1,CHI&1‡ 06494 14 17225 00000 05 740 BTM HOTX,* 06506 47 06482 -6530 05 780 BTM CHI-1,CHI&1‡ 06494 14 17225 00000 05 740 BTM HOTX,* 06506 47 06482 -6530 05 780 BTM CHI-1,CHI&1‡ 06494 14 17225 00000 05 740 BTM CHI-1,CHI&1‡ 06494 14 17225 00000 05 740 BTM CHI-1,CHI&1‡ 06494 14 17225 00000 05 740 BTM CHI-1,CHI&1‡ 06506 47 06482 -6530 05 780 BTM CFX,* 06506 47 06482 05 05 05 05 05 05 05 05 05 05 05 05 05</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06250</td><td>06250</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06250 32 06270 00000 05 530 ENDPRO SF XETURN\$ 06270 05 550 DORG *-3* 06270 05 550 DORG *-3* 06270 05 550 DORG *-3* 06270 05 560 XETURN CF XETURN\$ 06270 05 560 XETURN CF XETURN\$ 06282 17 06482 6294 05 570 BTM GETNO,*612* 06282 17 06482 6294 05 570 BTM GETNO,*612* 06294 31 00000 06606 05 580 TR OUT ,BEREC68* 06306 26 66328 08346 05 590 TF *622,SMTLU1610* 06318 21 00000 00004 05 600 A OUT66 ,4* 06330 17 14522 000-8 05 610 BTM PUTX,8,10* 06342 44 00462 06270 05 630 TF LODER,SMCNT* 06354 26 16141 08427 05 630 TF LODER,SMCNT* 06366 12 16141 00000 05 640 SM LODER,10,10* 06378 26 16290 16135 05 650 TF BRINST66,L* 06390 27 14820 14819 05 660 BT BGO,BGO-1* 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*612* 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*612* 06446 21 00011 16135 05 720 A OUT611 ,L* 06458 17 14522 00000 05 740 B TESTOO* 06470 49 06640 0000 05 740 B TESTOO* 06470 49 06640 0000 05 740 B TESTOO* 06482 31 17224 17226 05 750 GETNO TR CHI-,CHIE1* 06458 17 14522 00000 05 740 B TESTOO* 06470 49 06640 0000 05 740 B TESTOO* 06482 31 17224 17226 05 750 GETNO TR CHI-,CHIE1* 06458 17 14522 00000 05 740 B TESTOO* 06506 47 06482 01100 05 770 BNH #-24* 06530 26 06571 08346 05 700 TF EXIS,CHIE1* 06542 26 06576 08346 05 700 TF EXIS,CHIE1* 06554 26 06576 08346 05 700 TF EXIS,CHIE1* 06556 26 00009 0009 05 820 TF \$818,GETNO-1* 06578 26 06596 06481 05 830 TF \$818,GETNO-1* 06598 49 -0000 0000 05 840 BEREC B 10,,25\$</td><td>06250 32 06270 00000 05 530 ENDPRO SF XETURN\$ 06262 49 06282 00000 05 540 B XETURN\$12\$ 06270 05 550 DDRG *-3* 06270 33 06270 00000 05 560 XETURN CF XETURN\$ 06282 17 06482 -6294 05 570 BTM GETNO,*\$12\$ 06294 31 00000 66606 05 580 TR OUT ,BEREC&8\$ 06306 26 06328 08346 05 590 TF *622,\$MTLU1\$10\$ 06318 21 00000 60004 05 600 A OUT&6 ,4\$ 06330 17 14522 000-8 05 610 BTM PUTX,8,10\$ 06354 24 00462 06270 05 620 BNF BEGIN,XETURN\$ 06356 12 16141 08427 05 630 TF LODER,\$MCNT\$ 06378 26 16414 00000 05 640 SM LODER,\$10,10\$ 06378 26 16290 16135 05 650 TF BRIN\$7&6,1\$ 06410 05 600 BT BGO,BGO-1 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*\$12\$ 06434 26 00005 08426 05 710 TF OUT&5, \$\$NCNT-1\$ 06446 21 00011 16135 05 720 A OUT&5, \$\$NCNT-1\$ 06458 17 14522 00012 05 730 BTM PUTX,12,10\$ 06458 17 14522 00012 05 730 BTM PUTX,12,10\$ 064682 31 17224 17226 05 750 GETNO TR CHI-1,CHI&1\$ 06494 14 17225 0009 05 760 CM CHI,69,10\$ 06506 47 06492 01100 05 770 BNH SESTOD\$ 06506 47 06492 01100 05 770 BNH CHI-1,CHI&1\$ 06530 26 06571 08346 05 790 TF *\$2170,10\$ 06530 26 06571 08346 05 790 TF *\$2170,10\$ 06554 12 06571 08346 05 790 TF *\$241,SMTLU1&10\$ 06578 26 06590 0000 05 840 B TF *\$234,SMTLU1&10\$ 06597 05 850 DORG *-4\$</td><td></td><td></td><td>7 /</td><td>00402</td><td>00000</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06262 49 06282 C0000 05 540 B XETURN 12 06270 3 06270 C0000 05 560 XETURN CF XETURN 1 06282 17 06482 -6294 05 570 BTM GETNO,*&12 06294 31 00000 06606 05 580 TR OUT ,BEREC&8 06306 26 C6328 08346 05 590 TF ** &22,SMTLU1&10 06318 21 00006 00004 05 600 A OUT&6 ,4 06318 21 00006 00004 05 600 BTM PUTX,8,10 06330 17 14522 000-8 05 610 BTM PUTX,8,10 06342 44 00462 06270 05 620 BNF BEGIN,XETURN 1 06342 44 00462 06270 05 630 TF LODER,SMCNT 06354 26 16141 08427 05 630 TF LODER,SMCNT 06366 12 16141 00000 05 640 SM LODER,10,10 06378 26 16290 16135 05 650 TF BRINST&6,L 06390 27 14820 14819 05 660 BT BG0,BG0-1 06402 49 00462 00000 05 670 B BEGIN 06410 05 680 DORG *-3 06410 05 680 DORG *-3 06422 31 00000 66627 05 700 TR OUT&5 ,SMCNT-1 06434 26 00005 08426 05 710 TF OUT&5 ,SMCNT-1 06446 21 00011 16135 05 720 A OUT&11 ,L 06458 17 14522 0002 05 730 BTM PUTX,12,10 06458 17 14522 0002 05 730 BTM PUTX,12,10 06464 14 17225 0009 05 760 CM CHI,69,10 06506 47 06482 -6530 05 780 BTM CHI,69,10 06506 47 06482 -6530 05 780 BTM CHI,69,10 06506 26 06571 08346 05 790 TF ** &241,5MTLU1&10 06578 26 06571 08346 05 800 TF ** &241,5MTLU1&10 06578 26 06596 06481 05 830 TF ** &241,5MTLU1&10 06598 49 -0010 0000 05 840 BEREC B 10,,25 06598 49 -0010 0000 05 840 BEREC B 10,,25</td><td>06262 49 06282 00000 05 540 B XETURN&12‡ 06270 33 06270 00000 05 560 XETURN CF XETURN\$ 06282 17 06482 -6294 05 570 BTM GETNO,*&12‡ 06294 31 00000 06606 05 580 TR OUT ,BEREC&8‡ 06306 26 06328 08346 05 590 TF *&22\$,SMILUI&10\$‡\$ 06318 21 00006 00004 05 600 A OUT&6 ,4\$‡ 06318 21 00006 00004 05 600 A OUT&6 ,4\$‡ 06330 17 14522 000-8 05 610 BTM PUTX,8,10\$‡ 06342 44 00462 06270 05 620 BNF BEGIN,XETURN\$‡ 06354 26 16141 08427 05 630 TF LODER,SMCNT\$‡ 06366 12 16141 00000 05 640 SM LODER,10,10\$‡ 06378 26 16290 16135 05 650 TF BRINST&6,L\$‡ 06390 27 14820 14819 05 660 BT BG0,BG0-1\$‡ 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$‡ 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12\$‡ 06422 31 00000 06627 05 700 TR OUT ,EXREC\$‡ 06434 26 00005 08426 05 710 TF OUT&5 ,SMCNT-1\$‡ 06458 17 14522 000J2 05 730 BTM PUTX,12,10\$‡ 06464 21 00011 16135 05 720 A OUT&1 ,L\$‡ 06462 31 17224 17226 05 750 GETNO TR CHI,6*9,10\$‡ 06494 14 17225 00090 05 740 B TESTOD\$‡ 06494 14 17225 00090 05 770 BTM PUTX,12,10\$† 06496 11 00000 05000 050 770 BTM PUTX,12,10\$† 06496 11 17 06482 0100 05 770 BTM PUTX,12,10\$† 06458 17 14522 000J2 05 730 BTM PUTX,12,10\$† 06468 17 14522 000J2 05 750 GETNO TR CHI-,6*9,10\$‡ 06506 47 06482 01100 05 770 BNH *=244* 06506 47 06482 01000 05 780 BTM CFXN, *&12\$‡ 06530 26 06571 08346 05 790 TF *&41,6*111010\$† 06518 17 09248 -653 0 05 780 BTM CFXN, *&12\$‡ 06530 26 06571 08346 05 790 TF *&41,6*111010\$† 06566 26 00009 00009 05 820 TF 9,9\$‡ 06578 26 06596 06481 05 830 TF *&18,6*ETNO-1\$‡ 06590 49 98765 00000 05 840 B 98765\$‡</td><td></td><td></td><td>22</td><td>04270</td><td>00000</td><td></td><td></td><td>ENDDDO</td><td></td><td></td></tr><tr><td>06270 06270 06270 06270 06270 06270 06282 17 06482 06282 17 06482 06294 31 00000 06606 05 580 TR OUT BTM GETNO,*&12* 06294 31 00000 06606 05 580 TR OUT BEREC&8* 06318 21 00000 00004 005 600 A OUT&&& ,4* 06330 17 14522 000-8 05 610 BTM PUTX,8,10* 06342 44 00462 06270 05 620 BNF BEGIN,XETURN* 06354 26 16141 08427 05 630 TF LODER,SMCNT* 06366 12 16141 00000 00000 05 640 SM LODER,10,10* 06378 26 16290 16135 05 650 TF BRINST&6,1*
BRO,860-1* 06402 49 00462 00000 05 670 BR BEGIN* DORG *-3* 06410 06410 17 06482 06422 31 00000 06627 05 700 TR OUT *EXREC* 06434 26 06000 08426 05 710 TF OUT&S *SMCNT-1* 06446 21 00011 16135 05 720 A DUTEIL *L* 06458 17 14522 00002 05 740 06410 06482 11 17224 17226 05 750 06TNO TR OUT *EXREC* 06494 14 17225 00009 05 760 CM CHI,69,10* 06506 47 06482 011000 05 770 BNH *-24* 06530 06571 08346 05 790 TF *EXPLORED* *EXPLORED*</td><td>06270 06270 06270 06270 06270 06270 06270 06270 06270 06270 06282 17 06482 -6294 05 560 06294 31 00000 06606 05 580 06294 06294 06294 06294 06294 06294 06294 06294 07 00000 06606 05 580 08 TR OUT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ENDPRO</td><td></td><td></td></tr><tr><td>06270 33 06270 C0000 05 560 XETURN CF XETURN 06282 17 06482 -6294 05 570 BTM GETNO,*&12 06294 31 00000 06606 05 580 TR OUT ,BEREC&8 06306 26 06328 08346 05 590 TF</td><td>06270 33 06270 CC000 05 560 XETURN CF XETURN‡ 06282 17 06482 -6294 05 570 BTM 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06597 05 850 DORG *-4‡</td><td></td><td></td><td>49</td><td>00202</td><td>00000</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06282 17 06482 -6294 05 570 BTM GETNO,*&12* 06396 26 06328 08346 05 590 TF</td><td> C6282</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>WE THIRD</td><td></td><td></td></tr><tr><td>06294 31 00000 06606 05 580 TR OUT ,BEREC&8 06306 26 06328 08346 05 590 TF</td><td>06294 31 00000 06606 05 580 TR OUT ,BEREC&8‡ 06306 26 C6328 08346 05 590 TF *&22,SMTLU1&10‡ 06318 21 00006 00004 05 600 A OUT&6 ,4‡ 06330 17 14522 000-8 05 610 BTM PUTX,8,10‡ 06342 44 00462 06270 05 620 BNF BEGIN,XETURN‡ 06366 12 16141 08427 05 630 TF LODER,SMCNT‡ 06366 12 16141 00000 05 640 SM LODER,10,10‡ 06378 26 16290 16135 05 650 TF BRINST&6,L‡ 06378 26 16290 16135 05 650 BT BGO,BGO-1‡ 06402 49 00462 00000 05 670 B BEGIN‡ 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*\$12‡ 06422 31 00000 06627 05 700 TR OUT ,EXREC‡ 06434 26 00005 08426 05 710 TF OUT&5 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05 650 TF BRINST&6,L‡ 06390 27 14820 14819 05 660 BT BGO,BGO-1‡ 06402 49 00462 00000 05 670 B BEGIN,* 06410 05 680 DORG *-3‡ 06422 31 00000 06627 05 700 TR OUT ,EXREC‡ 06434 26 00005 08426 05 710 TF OUT&5 ,SMCNT-1‡ 06446 21 00011 16135 05 720 A OUT&11 ,L‡ 06458 17 14522 00000 05 740 B TESTDO‡ 06470 49 06640 00000 05 740 B TESTDO‡ 06492 31 17224 17226 05 750 GETNO TR CHI-1,CHI&1‡ 06494 14 17225 00000 05 760 CM CHI,69,10‡ 06506 47 06482 01100 05 770 BNH *-24‡ 06518 17 09248 -6530 05 780 BTM CFXN,*&12‡ 06530 26 06571 08346 05 790 TF *&41,SMTLU1&10‡ 06542 26 06576 03346 05 790 TF *&41,SMTLU1&10‡ 06542 26 06571 08346 05 790 TF *&41,SMTLU1&10‡ 06542 26 06571 08346 05 790 TF *&41,SMTLU1&10‡ 06564 26 00009 0009 05 820 TF *&34,SMTLU1&10‡ 06564 26 00090 0009 05 820 TF *&34,SMTLU1&10‡ 06564 26 00090 0009 05 820 TF *&34,SMTLU1&10‡ 06570 49 98765 00000 05 840 BPRCE B 10,,,25‡</td><td>06318 21 00006 00004 05 600 A 0UT&6 ,4‡ 06330 17 14522 000-8 05 610 BTM PUTX,8;10‡ 06342 44 00462 06270 05 620 BNF 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*-4‡</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06330 17 14522 000-8 05 610 BTM PUTX,8,10* 06342 44 00462 66270 05 620 BNF BEGIN,XETURN* 06354 26 16141 08427 05 630 TF LODER,SMCNT* 06366 12 16141 0000 05 640 SM LODER,10,10* 06378 26 16290 16135 05 650 TF BRINST&6,L* 06390 27 14820 14819 05 660 BT BG0,BG0-1* 06402 49 00462 00000 05 670 B BEGIN* 06410 05 680 DORG *-3* 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12* 06422 31 00000 06627 05 700 TR OUT EXERCE* 06434 26 00005 08426 05 710 TR OUT ES SMCNT-1* 06446 21 00011 16135 05 720 A DUT&11 ,L* 06446 21 00011 16135 05 730 BTM PUTX,12,10* 06470 49 06640 0000 05 740 B TESTDO* 06494 14 17225 00002 05 730 BTM CHI,-CHI&1* 06494 14 17225 0009 05 760 CM CHI,-69,10* 06506 47 06482 01100 05 770 BNH *-24* 06516 17 09248 -6530 05 780 BTM CFXN,*&12* 06530 26 06571 08346 05 790 TF *&34,SMTLU1&10* 06542 26 06576 08346 05 800 TF *&34,SMTLU1&10* 06562 26 06576 08346 05 800 TF *&34,SMTLU1&10* 06562 26 06576 08346 05 800 TF *&34,SMTLU1&10* 06566 26 00009 00009 05 800 TF *&13,GETNO-1* 06590 49 98765 00000 05 840 BEREC B 10,,25*</td><td>06330 17 14522 000-8 05 610 BTM PUTX,8,10‡ 06342 44 00462 06270 05 620 BNF BEGIN,XETURN‡ 06364 26 16141 08427 05 630 TF LODER,SMCNT‡ 06366 12 16141 000J0 05 640 SM LODER,10,10‡ 06378 26 16290 16135 05 650 TF BRINST&6,L‡ 06390 27 14820 14819 05 660 BT BGO,BGO-1‡ 06402 49 00462 00000 05 670 B BEGIN‡ 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12‡ 06422 31 00000 06627 05 700 TR OUT ,EXREC‡ 06423 31 00000 06627 05 700 TR OUT ,EXREC‡ 06434 26 00005 08426 05 710 TF OUT&5 ,SMCNT-1‡ 06446 21 00011 16135 05 720 A OUT&11 ,L‡ 06458 17 14522 000J2 05 730 BTM PUTX,12,10‡ 06470 49 06640 00000 05 740 B TESTOD‡ 06494 14 17225 0009 05 760 CM CHI,69,10‡ 06506 47 06482 01100 05 770 BNH *-24‡ 06518 17 09248 -6530 05 780 BTM CFXN,*&12‡ 06530 26 06571 08346 05 790 TF *&41,SMTLU1&10‡ 06542 26 06576 08346 05 790 TF *&534,SMTLU1&10‡ 06554 12 06571 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*&41,SMTLU1&10\$ 06542 26 06576 08346 05 800 TF *&34,SMTLU1&10\$ 06542 26 06571 08346 05 800 TF *&34,SMTLU1&10\$ 06564 26 00009 00009 05 820 TF 9,9\$ 06597 05 850 DORG *-4\$ 06598 49 -09J0 00000 05 860 BEREC B 10,,25\$</td><td>06342 44 00462 06270 05 620 BNF BEGIN, XETURN 06354 26 16141 08427 05 630 TF LODER, SMCNT 06366 12 16141 000J0 05 640 SM LODER, 10, 10 06378 26 16290 16135 05 650 TF BRINST&6, L 06390 27 14820 14819 05 660 BT BGO, BGD 06402 49 00462 00000 05 670 B BEGIN 06410 05 680 DORG 06410 17 06482 -6422 05 690 EXPROC BTM GETNO, *612 06422 31 00000 06627 05 700 TR OUT , EXREC 06434 26 00005 08426 05 710 TF OUT&5 , SMCNT-1 06446 21 00011 16135 05 720 A OUT&11 , L 06458 17 14522 000J2 05 730 BTM PUTX, 12, 10 06470 49 06640 00000 05 740 B TESTDO 06482 31 17224 17226 05 750 GETNO TR CHI-1, CHI&1 06494 14 17225 0009 05 760 CM CHI, 69, 10 06506 47 06482 01100 05 770 BNH 06516 17 09248 -6530 05 780 BTM CFXN, *&12 06530 26 06571 08346 05 800 TF 06542 26 06576 08346 05
800 TF 06542 26 06576 08346 05 800 TF 06578 26 06596 06481 05 830 TF 06597 05 850 DORG *-4 06659 49 98765 00000 05 840 B 98765 006597 00 850 DORG *-4 006654 006654 006657 00680 0078 0088 0</td><td>_</td><td>06318</td><td>21</td><td>00006</td><td>00004</td><td>0.5</td><td>600</td><td></td><td>A</td><td></td></tr><tr><td>06354 26 16141 08427 05 630</td><td>06354 26 16141 08427 05 630</td><td></td><td>06330</td><td>17</td><td>14522</td><td>000-8</td><td>05</td><td>610</td><td></td><td>BTM</td><td>PUTX,8,10#</td></tr><tr><td>06354 26 16141 08427 05 630</td><td>06354 26 16141 08427 05 630</td><td></td><td>06342</td><td>44</td><td>00462</td><td>06270</td><td>05</td><td>620</td><td></td><td>BNF</td><td>BEGIN, XETURN+</td></tr><tr><td>06366 12 16141 000J0 05 640 SM LODER,10,10‡ 06378 26 16290 16135 05 650 TF BRINST&6,L‡ 06390 27 14820 14819 05 660 BT BGO,BGO-1‡ 06402 49 00462 00000 05 670 B BEGIN‡ 06410</td><td>06366 12 16141 C00J0 05 640 SM L0DER,10,10‡ 06378 26 16290 16135 05 650 TF 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BT BGO,BGO-1‡ 06402 49 00462 00000 05 670 B BEGIN‡ 06410 05 680 DURG *-3‡ 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12‡ 06422 31 00000 06627 05 700 TR OUT ,EXREC‡ 06434 26 00005 08426 05 710 TF OUT&5 ,SMCNT-1‡ 06446 21 00011 16135 05 720 A OUT&11 ,L‡ 06458 17 14522 000J2 05 730 BTM PUTX,12,10‡ 06470 49 06640 00000 05 740 B TESTOO‡ 06482 31 17224 17226 05 750 GETNO TR CHI-1,CHI&1‡ 06494 14 17225 00099 05 760 CM CHI,69,10‡ 06506 47 06482 01100 05 770 BNH *-24‡ 06518 17 09248 -6530 05 780 BTM CFXN,*&12‡ 06530 26 06571 08346 05 790 TF *&41,SMTLU1&10‡ 06542 26 06576 08346 05 800 TF *&34,SMTLU1&10‡ 06554 12 06571 000-1 05 810 SM *&17,10‡ 06566 26 00009 00009 05 820 TF \$&18,6ETNO-1‡ 06590 49 98765 00000 05 840 B 98765‡ 06597 05 850 DORG *-4‡</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06402 49 00462 00000 05 670 B BEGIN+ 06410 05 680 DORG *-3* 06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*612* 06422 31 00000 06627 05 700 TR 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TF *&41,SMTLU1&10‡ 06542 26 06576 08346 05 800 TF *&34,SMTLU1&10‡ 06554 12 06571 000-1 05 810 SM *&17,1,10‡ 06566 26 06090 06481 05 830 TF *&18,GETNO-1‡ 06590 49 98765 00000 05 840 B 98765‡ 06597 05 850 DORG *-4‡</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06410 17 06482 -6422 05 690 EXPROC BTM GETNO,*&12* 06422 31 00000 06627 05 700 TR OUT ,EXREC* 06434 26 00005 08426 05 710 TF OUT&5 ,SMCNT-1* 06446 21 00011 16135 05 720 A OUT&11 ,L* 06458 17 14522 000J2 05 730 BTM PUTX,12,10* 06470 49 06640 00000 05 740 B TESTDO* 06482 31 17224 17226 05 750 GETNO TR CHI-1,CHI&1* 06494 14 17225 00099 05 760 CM CHI,69,10* 06506 47 06482 01100 05 770 BNH *-24* 06518 17 09248 -6530 05 780 BTM CFXN,*&12* 06530 26 06571 08346 05 790 TF *&41,SMTLU1&10* 06542 26 06576 08346 05 800 TF *&34,SMTLU1&10* 06554 12 06571 000-1 05 810 SM *&17,1,10* 06566 26 00009 0009 05 820 TF 9,9* 06578 26 06596 06481 05 830 TF *&18,GETNO-1* 06590 49 98765 00000 05 840 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06597 05 850 DORG *-4‡</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06597</td><td>06597 05 850 DORG *-4‡</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>06598 49 -00J0 00000 05 860 BEREC B 10,,25‡</td><td></td><td></td><td></td><td>77</td><td>30100</td><td>00000</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>לבן (עד מי מיט פערטעט טעניט אין פארכט דער אין פארכט דער אין אין אין אין אין אין אין אין אין אין</td><td></td><td></td><td>1.0</td><td></td><td>00000</td><td></td><td></td><td>DEBEC .</td><td></td><td></td></tr><tr><td>1110</td><td></td><td>_</td><td><u> </u></td><td>44</td><td>-0000</td><td>00000</td><td>05</td><td>000</td><td>DEKEL</td><td>D</td><td>10,,20+</td></tr><tr><td></td><td>1// 0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1110</td></tr></tbody></table> | | | | | | | | | | |

LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS A	AND REMARK	S PAGE	12
06606					870		DORG	#- 3‡	<i>*</i>		
06606	49	-000Q	00000		880		В	8,,26‡		9	
06614					890			* -3 			
06614	26	-000K	00001		900		TF	2,1,26‡			
06626		1			910	·	DC	1,0+		·	
06627		1			920	EXREC	DC	1,1#			
06633		6			930	·	DC	6,700002‡			
06639		. 6			940		DC	6,00012@#			•
06640		03890			950	TESTDO	BNF	CONFMT-20			
06652		00000			960		TR	CUT	• DORCRD#		
06664		05564			970		SM	EMM&6,20#			
06676		06699			980		TF	*823,EMM&	6 ‡		
88660		00040			990		TR	DUT&40#		·	
06700		06718			000		TF	*£18,*-1 			
06712	15	00000	00000		010		TDM	#			
06723		1			020		DC	1,2,**			
06724		06718			030		AM	*-6,10#			
06736		06754		06	040	•	TF	*818,*-18	‡		
C6748		00000			050		TF	,CRAM+		·	
06760		C6754			060		AM	*-6,10 [‡]			
06772		06790			070		TF	*618,*-18	*		
06784		00000		06			TF	, CRAM#	AAAATIIO		
06796		00006			090		TF	04764	,0UT&44#		
06808		00011			100		TF	0UT&11	*0UT&59#		
06820		00018			110		TF	813TUO	,OUT&44# ,OUT&54#		
06832		00023			120		TF	OUT & 23	,001634+		
06844		00030			130 140		TF BNF	#624	,001649# ,0UT67#		—-U
06856		00000			150		TDM	OUT	,2‡	•	
06868 06880		06904			160		BNF	±&24	,OUT&19#	·	
06892		00012			170		TDM	0UT&12	,2‡		
06904		14522			180		BTM	PUTX, 36, 1			
06916		01069			190		AM		36 , 10‡		
06928		06652			200		BNE	TESTDO&12			
06940		03890			210		В	CONFMT-20			
06947	77	03030	00000		220			*-4‡	'		
06947		1			230	DORCRD		1,1#			
06958		11			240	<u> </u>	DC	11,100000	00000#		
06970		12			250		DC	12,140000			
06983		13			260		DC	13,470000			
06986		3			270		DC	3,68#			
06987		1			280	GOTORC		1,1#			
06996		9			290	22.20	DC	9,3000090	00‡		
06998		2			300		DC	2,04#			
07010		12			310		DC	12,320009	500000#		
07017		7			320		DC	7,1100099			
07022		5			330		DC	5,00067#			
07034		12			340		DC		5900099‡		
07046		12			350		DC	12,260006			
07047		1			360	GGG	DC	1,4#			
07055		8			370		DC	8 ,900000	0@#		
06640			7		380	CONTIN		,TESTDO#	The second secon		
07056	16	12895	000M8		390	PAUSE	TEM	INSTIEL	,48	,10‡	
07068			00000		420		В	ENDX-32#			
07076					430		DORG	* -3 *			
01010											

LOCTN	CD	P./L	Q.	pΩ	LN	LABEL	MNEM	DPERANDS AND REMARKS PAGE 13
07076		17224			450	STOP	TR	CHI-1, CHI & 7 +
07088		12901			460		TF	INST1&7,CONTRL-1#
07100	49	07140	ccoco		470		8	CONTRL & 24‡
07108		00/55	0000		480		DORG	CTOBCB 071
07108	<u>J7</u>	02452	-0000		490		BTM	STOPSR , ,07#
07116	~ .	17004	17220		500	CONTRA	DORG	
07116		17224			510 520	CONTRL	TFM	CHI-1,CHI&13‡ INST1&1,34,10‡
07128		12895					BTM	
07140 07152		09248 12905			550 560		TF	CFXN,,10* INST1611,SYM*
07164		12902			570		CF	INST168#
07176		07200			580		BNR	*624,CHI
07188		12905			590		TFM	INST1811#
0720C		12906			595		TR	INST1812 , CRAM-4+
07212		13976			600		вт	PUT1, PUT1-1+
07224		06640			610		В	TESTD0#
07232					620		DORG	*-3‡
07232	49	02562	00000		630	ENDX	В	ENDSR#
07239					640		DORG	*-4 ‡
07239		1	*	06	650		DC	1,0‡
07240	31	00000	07232	06	660	END	TR	OUT ,ENDX‡
07252			000-8	06	670		BTM	PUTX,8,10‡
07264			-7284		680		TEM	DUMP&54, +&20+
07276	49	14702	00000	06	690	***************************************	В	DUMP#
07284					700			*-3‡
07284			J4592		710		TFM	DUMP&54, PUTPHI&36+
07296			16669		720		BNR	*&20,IMAGE‡
07308	49	07340	00000		730		8	*&32 ‡
07316					740			*-3‡
07316			C0459		750		80	*E24,SKPPCH*
07328			00400		760			IMAGE#
07340			16135		770		TF TFM	BUFBASE6,L#
07352			00R99 -7384		780 790		TEM	SYM,999,9‡ CSORN-1,*620‡
07364					800		В	SMTLU#
07376	49	00200	00000		810			*-3*
07384	26	16605	C8427		820		TF	BUFBASE11,SMCNT#
07396			08347		830		TF	BUFBAS&16,SMTLU1&11‡
			16156		840		TR	BUFBAS&17, USEDFS+
07420			16578		850		TR	BUFBAS&67, MEMCAP-5#
07432			16582		870	100	TF	** \$59, MEMCAP-1 #
07444			16582		880		TF	*&30, MEMCAP-1+
07456			00100		890		BC1	EXIT#
07468			00102		900		RCTY	
07475	- '	1			910	•	DC	1,0,*-4+
07480	26		00000		920		TF	DOIT-3‡
07492			07901		930		BNF	NOTCON ,DOIT-3#
07504			C7898		940		BNF	FLPCON ,DOIT-6#
07516	16	07674	-7898		950	FXPCON	TEM	wnum865 ,DOIT-6#
07528	49	07632	00000		960		8	WADDR#
07536					970			*-3‡
07536			-7892		980	FLPCON		WNUMBES ,DOIT-12#
07548	4 9	07632	00000		990		В	WADDR#
07556					000			*-3‡
07556	44	07612	C7899	07	010	NOTCON	BNF	NOTACC+DOIT-5#

	LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	14	
	07568	14	07901	00R99	07	020		CM '	DOIT-3,999,9‡			
-	07580			01200		030		BE	EXIT#			
	07592			-7899		040		TEM	WNUMB&6,DOIT-5#	*		
	07604		07632			050		В	WADDR#			
	07612	• • •	0. 33L	00000		060			*-3 			
	07612	44	07712	07898		070	NOTACC		VAR, DOIT-6+			
	07624			00000		080		В	FXPCON#			2
	07632	77	01010	00000	07	090			#-3 ‡			
	07632	้าม	07470	00100		100	WADDR		DOI&38#			.*
	07644		00000			110	WADO!		,,11‡			 ,
	07651	٠,	1	00100		120		DC	1, 3, *-4‡			
•	07656	44	07732	07655		130		BNF	VAR&20, #-1#			
	07668			00100		140	WNUMB	WNTY	*			
	07680			00010		150	RETURN		DOI659,10,10#		· · · · · · · · · · · · · · · · · · ·	
	07692			00070		160	NE TONI	SM	D01842,10,10+			
	07704			00000	07	170		B B	D01624#			
	07712	77	01430	00000		180			#-3#			
	07712	22	07455	00000		190	VAR	CF	WADDR&23#			
	07724			00000		200	VAN	В	WADDR#			
	07732	77	01032	00000		210			#-3 ‡			
	07732	20	07902	00100		220			DOIT-11#			
	07744			00000		230		SF	WADDR&23+			
				07490		240		TF	#&34,D01&58#			
·	07756 07768		07790		07	250	 	SM	*622,1,10 +			 .
				00005		260		BNF	RETURN,5#			
	07780			07790		270		TF	#&22,#-2‡			
						280		BNF	#620,6 			
	07804 07816		07680	00006		290		B	RETURN#			U
		47	01000	00000		300			#-3#			
	07824 07824	24	07944	07790	07	310		TF	#622, VAR 678#			
	07836			00009		320		TF	DO1842,9‡			
	C7848			00101		330		SPTY	±			
				00101		340			DOI&38#			
	07860			OCOKO		350	<u> </u>	SM	DOI&59,20,10#			
	07872											
	07884	49		00000		360		B	RETURN612‡			<u>.</u>
	.07901		6			370		DS	6‡			
	07902					380 390		DC DC	1,2+			
	07903		1			400	DOTT		1,0+		1	
	07904	/ 3	00057	00450			DOIT	DS	, # & 1 # MOON7-24, SKPPCH#	····		
	07904			00459		410	EXIT	BD				
	07916			00300		420		BC3	LOOP#			 -
	07928			16596		430		TR .	402, BUFBAS&2#			
	07940			-0152		440	CTORER	B	STOPER, 152, 7#			
	07952			00102		450	STOPER		+ 4 Clinc+			
	07964			00100		470			LSUBS#			
	07976			00500		480		RNCD	‡			
	07988	49		00000	07	490		<u>B</u>	<u> </u>			
	07995		. 1			500		DC	1,0,=-4+			•
	07996		1///	0000:		510	1.000		*-3‡			
	07996			00001		520	LOCP	TDM	BUFBAS & 50,1,11+			
	80080			-0402		530		TFM	BUFBAS&1,402#			
	08020			00400		540			LOAD-2+			
	08032			00400	07	550			LSUBS-6‡			
	08044			00400		560			STOPER-5#			_
	08056	34	_00000	00102	01	570		RCTY	+			(

	LOCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 15
	08068	39	16511	CC100	07	580		WATY	EOC‡
	08080			16588		590	MOCN7	TF	#£18,FCTEND#
	08092			16349		600		TF	,CRAM#
	08104			08097		610		TF	*&53,*-7*
	08116			00000		620		SM	*-18,10,10
	08128			J7396		630		CM	*-30,LAST&12*
	08140			01100	07	640		ВН	*-48 ‡
	08152	15	80000	00000	07	650		TDM	8‡
	08164	26	05564	08098	07	660		TF	EMM&6,MOON7&18#
	08176	22	16205	16205	07	670		S	USEDFS&49,USEDFS&49#
	08188	34	K0000	20102		680		K	20000 ,20102 ,2‡
	08195					685	INCREM	DS	, #-4‡
	08200	15	15991	00001		687		TDM	TRACE&1 ,1#
	08212			00100		690			LSTM#
	08224	41	N1000	00000		700		NOP	51000 , ,2‡
	08235					705	Fl	DS	, ##
	08236		08225			710		TDM	*-11,8 ‡
	08248			00400		740			LROUT#
	08260			00400		750			LROUT2+
	08272	49	00402	00000		760		В	INITL#
	08280					770			+-3 ‡
	08280			16582		780	SMTLU	TF	SMCNT, MEMCAP-1+
	08292		08346			790	 	TF	SMTLU1610, MEMCAP-2#
	08304	49	08336	00000		800		В	SMTLU1#
	08312		00/01			810	CW 000		*-3
Mile.	08312			000-1		820	SMLOOP	SM	SMCNT-1,1,10‡
	08324			000-1		830	SMTLU1	SM	SMTLU1610,1,10#
	08336			00009		840 850	SHIFOT	BNF	COMP,9+ +632,COMP-2+
	08348			17221 17211		860		BNF	SMLOOP,SYM-2+
	08360			00000		870		В	SMTST#
	08372 08380	47	00,390	00000		880			#-3‡
	08380	4.4	00429	17219		890		BNF	SMNOT, COMP-4+
	08392			17222		900		TF	SMCNT-1,COMP-1#
	08404			00000		910		TDM	COMP-4.0+
	08416			R9999		920	-	В	SML00P,99999,7‡
	08427	7 2	JJJ12			930	SMCNT	DS	g##
,	08428	45	08596	17223		940	SMNOT	BNR	SMTST,COMP#
	08440					950			NOSPCE+COMP-1+
	08452			08346		960		TF	*&17,SMTLU1&10#
	08464			17213		970		TF	9,SYM‡
	08476			17213		980		BNF	MODN3, SYM#
	08488			00000		990		CF	SYM#
	08500			00000		000		TDM	SYM&1#
	08511		1			010		DC	1,0,**
	08512	31		17204		020		TR	89,SYM-9#
	08524			08427		030		TF	88,SMCNT#
	08536			14867		-04C		ВТ	COMGO,COMGO-1#
	08548			00699		050	MOON3	BD	DMM, DMSWCH+
	0856C			CCOK4		070		CM	CHI,24,10‡
	08572			01200	08	080		BNE	PUTETA-12‡
	08584			0-072	08	090		BTM	ERROR, 72, 8‡
	08596	24	17213	17223		100	SMTST	С	SYM, COMP#
	00270					110		ВV	CMI COD+
	80380		08312	01200		110 120		BNE	SMLOOP+ SMLOOP+

LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 16
08632	24	17223	17213	08	130		С	COMP,SYM#
08644		08312			140		BV	SMLOOP#
08656		17215			150		TR	COMP-8,ETAC-7#
08668		C8347			160		C	SMTLU1811.FCTEND#
08680	47	11308	01100	08	170		BNH	PUTETA-36‡
08692		08714		80	180		TD	*&22,SMCNT-1*
08704	43	08728	00200	80	190		BD	* 824 , 200
08716	11	08426	000-1	80	200		AM	SMCNT-1,1,10#
08728	16	08782	J6105		210		TFM	*&54,USEDFS-51 +
08740	26	08775	08426	80	220		TF	*&35,SMCNT-1#
08752	32	08774	00000		230		SF	* &22
08764	11	08782	-0000		240		AM	*&18, ‡
08776	15	16105	00001		250		TDM	USEDFS-51,1‡
08788	15	08427	00000		260	-	TDM	SMCNT, 0‡
08800	16	17225	000M6		270		TEM	CHI,46,10#
08812	15	11597	00000	08	280		TDM	FXORFL#
08824		09473			290		TFM	CSORN-1, +620+
08836	49	11344	00000		300		В	PUTETA#
08844					310			*-3 ‡
C8844		00697			320		TDM	FSTSW,1‡
08856	49	12582	00000		330		В	TFSAVE#
08863			,		340		DORG	*-4‡
08864	26	09123	08427		350	DMM	TF	DIMONT, SMCNT+
08876	14	17225	000K4		351		CM	CHI ,24 ,10‡
88880	46	08920	01200		352		BE	* &32
08900	44	09192	00699	08	354		BNF	DIMC-32 ,DMSWCH#
08912	49	09124	CC000		356		В	DIMB&12‡
08920				80	358		DORG	*-3‡
08920	12	08346	000-1		360		SM.	SMTLU1810,1,10#
08932	26	08997	08346	80	370		TF	DIMAE5, SMTLU1E10#
08944		09117			380		TF	DIMB&5,SMTLU1&10+
08956		09122			390		AM	OIMONT-1,1,10#
08968		17222			400		TR	CHI-3,CHI-1‡
08980	17	09248	000-0	08	410		BTM	CFXN,0,1C‡
08992		19994			420	DIMA	TF	19994,SYM#
09004	31	17222	17224	08	430		TR	CHI-3,CHI-1+
09016	14	17223	000-4		440		CM	CHI-2,4,10‡
09028		09224			450		BE	DIMC+
09040		17223			460		TF	SYM&10,SYM#
09052		09248			470		BTM	CFXN,,10‡
09064		17223			480		M	SYM&10,SYM#
09076			00000		490		SF	96‡
09088			17224		500		TR	CHI-3,CHI-1#
09100			00099		51.0		S	DIMONT-1,99‡
09112	16	19999	-0000		520	DIMB	TEM	19999,‡
09123					530	DIMONT		, #+
09124			17227		540		BNR	*&32,CHI&2‡
09136			00000		550		TDM	DMSWCH#
09148	49	00462	00000		560		В	BEGIN‡
09156			* .		570			*-3‡
09156			OCCK3		58C		CM	CHI,23,10‡
09168			17224		590		TR	CHI-3,CHI-1‡
09180			01200		600		BE	*824‡
09192			0-079		610		BTM	ERROR, 79, 8‡
09204	45	09602	17227	0.8	620		BNR	CS,CHIE2‡

LCCTN	CP	P/L	0	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	17
09216	49	09192	00000	08	630		В	*-24 		
09224				80	640		DURG	*-3‡		
09224	22	09122	17213	0.8	650	DIMC	S	DIMONT-1,SYM#		
09236	49	C9112	COOCC	80	660		В	DIMB#		
09248	16	17209	0-000	80	670	CFXN	TEM	SYM-4,,8‡		
09260	16	09290	J7209	08	680		TFM	*&30,SYM-4+		
09272	11	09290	000-1	08	690		AM	*&18,1,10		
09284		17210		0.8	700		TD	SYM-3,CHI+		
09296		17222		08	71 C		TR	CHI-3,CHI-1#		
09308		09328			720		BNR	*&20,CHI+	· · · · · · · · · · · · · · · · · · ·	
09320	49	09376	00000		730		В	*&56‡		
09328					740		DURG	*-3*		
09328	14	17225	000-0		750		CM	CHI,,10#		
09340		09296			760		BE	#-44#		
09352		17225			770		CM	CHI,69,10#		
09364		09272			780		ВН	CFXNE24#		
09376		09290			790		CM	CFXNE42,SYM#		
09388		10462			800	······································	ВН	EXCESS#		
09400		09423			810		TF	*823,CFXN842*		
09412		17213			820		TF	SYM#		
09424		17210			830		SF	SYM-3#		
09436		09450			840		BNF	#814,CFXN-2#		
09448		00000			850		88	‡		
09450	42	00000	00000		860			* *-9*		
	24	09473	00247		870		TF	CSORN-1, CFXN-1+		
09450		08280			880		В	SMTLU#		<u> </u>
09462						CSODN				
09474		17225			890 900	CSCRN	CM TDM	CHI,3,10‡ FXORFL‡		
09486		11597						NUMBER‡		
09498		09850			910 920		BE CM	CHI,70,10#		
09510		17225								
09522		09850			930		BNL	NUMBER#	·	
09534		17225			940		CM	CHI,48,10‡		
09546		09566			950		ВН	*620‡		
09558	4.9	09602	00000		960		В	CS#		
09566					970			#-3#		
09566		17225			980		CM	CHI,55,10#		
09578		09602			990		ВН	CS#		
09590		11597			000		TDM	FXORFL,2‡		
			J7205		010	CS	TFM	SALTE6,SYM-8+		
09614		17214			020		TF	SYM&1,ZERO9‡		
09626		17205			030	SALT	TF	SYM-8,CHI#		
09638		17222			040		TR	CHI-3,CHI-1#		
09650		09632			050		AM	SALT&6,2,10‡		
09662		17225			060		CM	CHI,40,1C#		
09674		10530			070		BNL	SYMCHK#		
09686		17212			080		CF	SYM-1+	,	
09698		17210			090		CF	SYM-3‡		
09710		17208			100		CF	SYM-5‡	(
09722	33	17206	00000	09	110		CF	SYM-7#		
09734		08280		09	120		В	SMTLU#		
09742					130		DORG	*-3*		
09742	14	10008	J7210		140	FXNUMB		NUMB186 ,SYM-3+		
09754		11597			150		TDM	FXORFL,2#		
C9766			Clicc		16C	***************************************	ВН	EXCESS#	· · · · · · · · · · · · · · · · · · ·	
. 67766								SYM-8		

LOCTN	<u>CP</u>	P/L	Q		LN	LABEL		OPERANDS AND REMARKS	PAGE	18	
09790	26				180		TF	*&23,NUMB1&6#			
09802		17214			190		TF	SYME1#			
09814		17213			200		SF	SYM#			
09826		17210			210		SF	SYM-3#		:	
09838		08280			220	******	В	SMTLU#			
09850		17213			230	NUMBER		SYM ,F1=	· · ·		
09862		09849			240		TFM	NUMBER-1, NUMB3+			
09874		10008			250		TFM	NUMB1&6 ,SYM-7#			
09886		17225			260		CM	CHI,70,10‡			
09898		09930			270		BNE	*632\$			
09910		17224			280		TR	CHI-1,CHI&1+			
09922	49	09886	00000		290		В	*-36 ‡	<u> </u>		
09930					30C		DORG				
09930		17225			310	NUMB	CM	CHI,3,10‡			
09942		10058			320		BE	FLNUMB#			
09954		17225			330		CM	CHI,69,10+			
09966	`47	09742	01100		340		BNH	FXNUMB#			
09978	14	10008	J7213	09	350		CM	NUMB1&6,SYM#			· · · · · · · · · · · · · · · · · · ·
09990		10014			360		BH	NUMB1612#			
10002	25	00000	17225		370	NUMB1	TD	,CHI+			
10014	31	17224	17226	09	380		TR	CHI-1,CHI&1#			;
10026	11	10008	-C001	09	390		AM	NUMB1&6,1+			;
10038		17205		09	400	NUMB5	AM	SYM-8 ,1	,010‡		
10050	49	09930	00000	09	410		В	NUMB#			
10058					420		DORG	*-3			
10058	26	10220	10008		430	FLNUMB	TF	NUMB286,NUMB186#			
10070		17205			440		CM	SYM-8 ,51	,10#		
10082		10106			450		BE	#824#	•		
10094		09849			460		TFM	NUMBER-1, NUMB2&12#			
10106		10160			470		TF	VARBR&6, NUMBER-1#	.•		
10118		17205			480	NUMB3	SM	SYM-8 ,1	,10 		
10130		17224			490	11011103	TR	CHI-1,CHI&1+	,		
10142		17225			500		CM	CHI,70,10#			
10154		00000			510	VARBR	BE	‡			k
10166		10246			520	VANDA	BNH	CMPAR+			
10178		10160			530		TFM	VARBRE6, NUMB2E12+			
10190		10220			540		CM	NUMB2&6 ,SYM#			
		10226			550		BH	NUMB2&12#			
10202		00000			560	NUMB2	TD	,CHI+			
10214						NUMBZ					ŧ
10226		10220 10130			570 580		B B	NUMB2&6,1# NUMB3&12#			
10238	49	10130	00000					#-3‡	:		
10246		17005	00045		590	CHOAD		CH1,45,10‡			
10246		17225			600	CMPAR	CM				
10258		10438			610		BNE	PLUS&12#			
10270		10436			620		TF	PLUS&10, NUMB5&10+	,		
10282		17227			630		CM	CHI &2,20,10#			
10294		10330			640		BL	*&36‡			
10306		10342			650		BNE	*836‡		·	
10318		10427			660		TDM	PLUS&1,2*			
10330		17224			670		TR	CHI-1,CHI&1+			
10342		10437			680	¥ .	TD	PLUS&11,CHI&2+			
10354		17224			690	· .	TR	CHI-1,CHI&3+			
10366		17225			700		CM	CHI,69,10‡			
	47	10426	01100	09	710		BNH	PLUS*			
10378											
10378 10390 10402	22	10436 10437	10437		720 730		S TD	PLUS&10,PLUS&11# PLUS&11,CHI#			

	LOCTN	ΩĐ	P/L	Ç	PG	IN	LABEL	MNFM	OPERANDS	AND	REMARKS	PAGE	19
					*******		·						
	10414 10426		17224 17205			740 750	PLUS	TR AM	CHI-1,CHI	G1+			
	10426		10462			760	PEU3	BV	EXCESS#				•
	10450		10474			770		BNF	*824	- 61	/M-8‡		
	10450		11426			780	EXCESS		ERROR	,73		,8‡	
	10474		11597			790	LACESS	TDM	FXORFL,0+				
	10486		17213			800		SF	SYM#				
	10498		08280			810		BD.	SMTLU, SYM	-7#			
	10510		17205			820		TFM	SYM-8	,		, 10#	
	10522		08280			830		В	SMTLU#		***************************************		
	10530				09	840		DORG	*-3				
	10530	14	09632	J7215	09	860	SYMCHK	CM	SALT&6,SY	ME2	ŧ		
	10542	47	09626	01200		870		BNE	SALT#				_
	10554	44	04640	00702		880		BNF	ER6	, If	SWCH#		
	10566	49	04568	00000		890		В	1F&68#				
	10574					900			*-3				
	10574		10608			920	SCRIPT	TF	*&34,SMTL		LU‡		
	10586		10609			930		SM	*823,10,1				
	10598		08584			940		BNF	SMTST-12,				
	10610		10632			950		TF	*622,*-2				
	10622		10642			960		BNF	*&20,6 	<u> </u>			
	10634	49	08584	60000		970		B	SMTST-12#	•			
	10642	1.5	00400	00003		980 990		TDM	*-3# SBSWCH,2#		·		
	10642		00698			000		TR	ETAN, ETAC				
	10654 10666		10889 10893			010		TF	ETANE4, SM		<u> </u>		
· ·	10678		10892			020		AM	ETANE3,1,				
J	10690		10724			030	· · · · · · · · · · · · · · · · · · ·	TF	*&34,SMTL		10#		· · · · · · · · · · · · · · · · · · ·
	10702		10724			040		SM	*&22,1,10				
	10714		00004			050		TF	OUT&4	, 4:	*		
	10726		11084			060		BTM	COLECT, #8	12#			
	10738		00005			070		TR	OUT&5	, 51	YMBSB-4+		
	10750	22	10892	11287	10	080		S	ETAN&3,NO	MB#			
	10762		17225		10	090		CM	CHI,23,10)‡	.,,		
	10774	46	10908	01200		100		BE	TWODIM#				
	10786			00009		110	QUERY	BNF	GORE		JTE9#		
	10798		17224			120		TR	CHI-1,CHI	£1 3			
	10810		00698			130		TDM	SBSWCH#				
	10822			11597		140		TD	ETANE7, FX		L#		
	10834		11376			150		BD	PETA, FLAG				
	10846			000-9		160	DUTCTO	AM.	*818,9,10		-		
	10858		00000			170	PUTETB		ETAN		.		
	10870		10888 98765			180 190	·	TF B	*&18,CSOR 98765#	(M_T;	<u> </u>		
	10882	47	30100	00000		200	ETAN	DS	98100+ • *-4+/				
	10889		4			210	LIMIY	DS	4#				
	10906		9			220	ETAC	DC	9,0+				-
	10908	17	11084			230	TWODIM		COLECT, *8	12#			
	10920		00010			240	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TR	OUT&10		YMBSB-4+		7
	10932		00004			250		M	OUT&4		DM8#		···-
	10944		00096			260		SF	96‡				
	10956			00099		270		S	ETANE3,99)‡			
	10968			00004		280		A	ETAN&3		UT&4+	<u> </u>	
	10980			00014		290		BNF	GORE		UT&14#		· · · · · · · · · · · · · · · · · · ·
_	10992		10786		10	300		В	QUERY#				

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11010		OP	P/L	Q			LABEL			PAGE	20
1012 26 10895 11387 10 33C							2025		· · · · · · · · · · · · · · · · ·		
11024 13 1187 0COJ5 10 340							GURE				
11036											
11048 22 11066 0.0099 10 360 S *EL8,99* 11060 31 0.0000 0.0001 10 370 TR 11072 49 10798 0.0000 10 390 COLECT TOM FAGRE1,3* 11096 16 16141 -000 10 400 TFM SYMBSB,0,711‡ 11108 16 11287 0.000 10 410 TFM SYMBSB,0,711‡ 11112 31 17225 0.0009 10 420 TR CHI-1,CHIEL* 11132 14 17225 0.0009 10 430 CM CHI-1,CHIEL* 11134 46 11252 0.0009 10 430 CM CHI-1,CHIEL* 11156 17 0.9602 0.0000 10 440 BH FAGR-24* 11168 26 16141 0.8427 10 460 TF SYMBSB,SMCNT* 11180 14 17225 0.0000 10 470 CM CHI,10,10* 11190 46 11240 0.1000 10 480 EE 484* 11204 14 17225 0.0000 10 490 CM CHI,10,10* 11216 47 11288 0.1000 10 500 BNE FAGRE1,2* 11228 15 11277 0.0002 0.500 BNE FAGRE1,2* 11240 31 17224 17224 10 500 BNE FAGRE1,2* 11252 17 0.9248 0.0000 10 530 BTH CFKN,10* 11264 26 11287 17213 10 540 BTH CFKN,10* 11265 26 1.0000 1.0500 BNE FAGRE1,2* 11267 33 11287 0.0000 10 550 FAGR CF NCMB4 11268 26 11306 11083 10 560 TF SCHBART 11306 40 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 11308 14 17225 0.0000 10 570 BNE FAGRE11 11308 14 17225 0.0000 10 670 BTH CFKN,10* 11309 10 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 11308 14 17225 0.00000 0.0000 0.00000 0.000000 0.00000 0.0000 0.00000 0.00000 0.00000 0.00000											
11060											
11072 49 10798 CCOCC 10 380 B QUERYS12* 11084 15 11277 COCC 10 400 TFM SYMBSB, 0, 711* 11108 16 11287 C-OCC 10 400 TFM SYMBSB, 0, 711* 11108 16 11287 C-OCC 10 400 TFM SYMBSB, 0, 711* 11120 31 17224 17226 10 420 TR CHI-1, CHIE1* 11132 14 17225 COCC 10 430 CM CHI-, CHIE1* 11134 46 11252 CIICO 10 440 BH FAGR-24* 11156 17 09602 CCO-2 10 450 BTM CS, 2, 10* 11168 26 16141 CACC CCC CCC CCC CCC CCC 11168 26 16141 CACC CCC CCC CCC CCC CCC 11168 26 16141 CACC CCC CCC CCC CCC CCC CCC 11168 14 17225 COCC CCC CCC CCC CCC CCC CCC 11204 14 17225 COCC CCC CCC CCC CCC CCC CCC 11204 17 11288 CCC CCC CCC CCC CCC CCC CCC CCC 11264 26 11247 CCCC CCC CCC											
1084											
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1120 31 17224 17226 10 420											
1112							•				
11144											
11156 17 09602 CCO-2 10 450 BTW CS,2,10# 11168 26 16141 08427 10 460 TF SYMBSB,5MCNT# 11180 14 17225 0000J0 10 470 CM CHI,10,10# 11192 46 11240 01200 10 480 BE 6446# 11204 14 17225 000K0 10 490 CW CHI,20,10# 11216 47 11288 01200 10 500 BNE FAGRE12# 11218 15 11277 00002 10 510 TDW FAGRE1,2# 11240 31 17224 17226 10 520 TR CHI-1,CHIE1# 11252 17 09248 COO-0 10 530 BTM CFXN,,10# 11264 26 11287 17213 10 540 TF NCMB,SYM# 11276 33 11287 000C0 10 550 FAGR CF NCMB# 11288 26 11306 11083 10 560 TF **818,COLECT-1# 11300 49 00000 CCOO0 10 570 B # 11300 49 00000 CCOO0 10 570 B # 11308 14 17225 CCOK4 10 600 CN CHI,24,10# 11329 46 10574 01242 10 610 BE SCRIPT,42# 11332 43 11330 00658 10 620 BC SCRIPT,42# 11368 49 10822 0COO0 10 650 BC SCRIPT,42# 11368 49 10822 0COO0 10 650 BC CN CHI,24,10# 11376 20 10893 08427 10 640 TF ETANEA,5MCNT# 11388 15 00700 0COO0 10 650 BC CN CHI,24,10# 11376 2 10896 0COC0 10 650 BC CN CHI,24,10# 11388 15 00700 0COO0 10 660 TF ETANEA,5MCNT# 11388 15 00700 0COO0 10 660 BC CN CHI,24,10# 11408 17 11426 0-074 10 700 NOSPCE BTM CRRR,74,8# 11408 17 11426 0-074 10 700 NOSPCE BTM CRRR,74,8# 11409 9 10846 0COO0 10 750 BC CNC CNC CNC CNC CNC CNC CNC CNC CNC											. ,
11168							· V = // · · · · · · · · · · · · · · · · ·				
11180											
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11216											
11228											
1124C 31 17224 17226 10 520											
11252											
11264 26 11287 17213 10 540 TF NCMB, SYM# 11276 33 11287 00000 10 550 FAGR CF NCMB# 11288 26 11306 11083 10 560 TF *618, COLECT-1# 11300 49 00000 00000 10 570 B # 11308 10 580 DORG *-3# 11287 10 590 NOMB DS FAGR& 11# 11308 14 17225 00044 10 600 CM CHI, 24, 10# 11320 46 10574 01242 10 610 BE SCRIPT, 42# 11321 43 11330 00698 10 620 BD *-2, SSEWCH# 11344 31 10889 10898 10 630 PUTETA TR ETAN, ETAC-8# 11356 26 10893 08427 10 640 TF ETAN&4, SMCNT# 11368 49 10822 00000 10 650 B QUERY&36# 11376 32 10896 00000 10 670 PETA SF ETANE7# 11387 2 10 660 DORG *-3# 11388 15 00700 00000 10 680 TDM FLAGSW, 0# 11400 49 10846 00000 10 690 B PUTETB-12# 11408 17 11426 0-074 10 720 NOSPCE BTM ERROR, 74, 8# 11424 5 10 730 DS 5# 11426 26 11511 11425 10 740 ERROR TF ERRMSS&20, ERROR-1# 11481 10 780 ZERO9 DC 9 OF 11481 10 780 ZERO9 DC 9 OF 11481 10 780 ZERO9 DC 9 OF 11491 12 10 790 ERRORS DAC 2 FROR TF OMM1, 00, 10# 11523 2 10 835 OMM1 DC 2 , ,*-2# 11538 16 15020 16972 10 850 TFM PUTOMH&6, PHI&220#								TR	CHI-1,CHI&1+		
11276 33 11287 00000 10 550 FAGR CF NCMB\$ 11288 26 11306 11083 10 560 TF *618,COLECT-1\$ 11300 49 00000 C0000 10 570 B # 11308 10 580 DORG *-3\$ 11287 10 590 NOMB DS FAGRE11\$ 11308 14 17225 000K4 10 600 CM CM CH1,24,10\$ 11320 46 10574 01242 10 610 BE SCRIPT,42\$ 11332 43 11330 00658 10 620 BD *-2,SBSMCH\$ 11344 31 10889 10898 10 630 PUTETA TR ETAN,ETAC-8\$ 11356 26 10893 08427 10 640 TF ETAN,ETAC-8\$ 11368 49 10822 00000 10 650 B QUERY&36\$ 11376 32 10896 00000 10 670 PETA SF ETAN,ET\$ 11387 2 10 675 SUBN DC 2 0 ,** 11388 15 00700 00000 10 690 B PUTETB-12\$ 11400 49 10846 00000 10 690 B PUTETB-12\$ 11408 17 11426 0-074 10 720 NOSPCE BTM ERROR, 74, 8\$ 11424 5 10 730 DS 5\$ 11426 26 11511 11425 10 740 ERROR TF ERRMSS&20, ERROR-1\$ 11481 10 780 DORG *-4* 11462 15 00731 00001 10 765 TDM TYSTE1 ,1\$ 11461 12 10 780 DORG *-4* 11481 10 780 DORG *-4* 11491 12 10 780 ERROR TF OMM, 00, 10\$ 11523 2 10 830 ASCAN TFM DMM, 00, 10\$ 11528 16 15020 J6972 10 850 TFM DUTOM-66, PHI&220\$	11252	17	09248	COO-0	10	530		BTM	CFXN,,10#		
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11300	11276	33	11287	00000	10	550	FAGR	CF	NCMB#		
11308	11288	26	11306	11083	10	560		TF	*818,COLECT-1#		
11287 11308 14 17225 CCOK4 10 600	11300	49	00000	00000	10	570		В	‡		
11308 14 17225 0C0K4 10 600	11308				10	580		DORG	* −3 ‡		
11320 46 10574 01242 10 610 11332 43 11330 00698 10 620 11344 31 10889 10898 10 630 11356 26 10893 08427 10 640 11368 49 10822 00000 10 650 11376 10 660 11376 10 660 11376 10 660 11387 2 10 675 11388 15 00700 00000 10 680 11400 49 10846 00000 10 690 11400 49 10846 00000 10 690 11408 17 11426 0-074 10 720 11428 5 10 730 11424 5 10 730 11426 26 11511 11425 10 740 11438 39 11491 00100 10 750 11450 15 00459 00001 10 765 11462 15 00731 00001 10 765 11462 15 00731 00001 10 765 11481 10 780 11481 10 780 11491 12 10 790 ERRMSS DAC 12, ERROR NO. @‡ 11491 12 10 790 ERRMSS DAC 12, ERROR NO. @‡ 11523 2 10 840 1150 1 840 1150 1 100-00 10 840 1150 1 100-00 10 840 1150 1 100-00 10 840 1150 1 100-00 10 840 1150 1 100-00 10 840 1150 1 100-00 10 840 1150 1 100-00 10 840 1150 1 100-00 10 840 1150 1 100-00 10 840 1150 1 15020 16972 10 850 1 150 0459 PUTOMH&6, PHI&220\$	11287		,		10	590	NOMB	DS -	,FAGR&11‡		U
11332 43 11330 00698 10 620 BD #-2,SBSWCH# 11344 31 10889 10898 10 630 PUTETA TR ETAN,ETAC-8# 11356 26 10893 08427 10 640 TF ETAN&4,SMCNT# 11368 49 10822 0C000 10 650 B QUERY&36# 11376 10 660 DORG *-3# 11376 32 10896 00000 10 670 PETA SF ETAN&7# 11387 2 10 675 SUBN DC 2 ,0 ,*# 11388 15 00700 0C0000 10 680 TDM FLAGSW,0# 11400 49 10846 0C000 10 690 B PUTETB-12# 11408 17 11426 0-074 10 720 NOSPCE BTM ERROR,74,8# 11424 5 10 730 DS 5# 11426 26 11511 11425 10 740 ERROR TF ERRMSS&20,ERROR-1# 11438 39 11491 00100 10 750 WATY ERRMSS# 11450 15 00459 0C00J 10 760 TDM SKPPCH,1,11# 11462 15 0C731 0C001 10 765 TDM TYST&1 ,1# 11474 49 03890 0C000 10 770 B CONFMT-20# 11481 10 780 DORG *-4# 11523 2 10 835 OMM1 DC 2 , ,*-2# 11528 16 15111 00-00 10 840 TFM ACC,,9# 11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220#	11308	14	17225	OCOK4	10	600.		CM	CHI,24,10#		
11332 43 11330 00698 10 620 BD #-2,SBSWCH# 11344 31 10889 10898 10 630 PUTETA TR ETAN,ETAC-8# 11356 26 10893 08427 10 640 TF ETAN&4,SMCNT# 11368 49 10822 0C000 10 650 B QUERY&36# 11376 10 660 DORG *-3# 11376 32 10896 00000 10 670 PETA SF ETAN&7# 11387 2 10 675 SUBN DC 2 ,0 ,*# 11388 15 00700 0C0000 10 680 TDM FLAGSW,0# 11400 49 10846 0C000 10 690 B PUTETB-12# 11408 17 11426 0-074 10 720 NOSPCE BTM ERROR,74,8# 11424 5 10 730 DS 5# 11426 26 11511 11425 10 740 ERROR TF ERRMSS&20,ERROR-1# 11438 39 11491 00100 10 750 WATY ERRMSS# 11450 15 00459 0C00J 10 760 TDM SKPPCH,1,11# 11462 15 0C731 0C001 10 765 TDM TYST&1 ,1# 11474 49 03890 0C000 10 770 B CONFMT-20# 11481 10 780 DORG *-4# 11523 2 10 835 OMM1 DC 2 , ,*-2# 11528 16 15111 00-00 10 840 TFM ACC,,9# 11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220#	11320	46	10574	01242	10	610		BE	SCRIPT,42#		
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11368		31	10889	10898	10	630	PUTETA	TR	ETAN, ETAC-8+		
11368	11356	26	10893	08427	10	640		TF	ETAN84, SMCNT+		
11376	11368	49	10822	00000	10	650		В	QUERY&36‡		
11376 32 10896 00000 10 670 PETA SF ETAN&7‡ 11387 2 10 675 SUBN DC 2 ,0 ,**‡ 11388 15 00700 00000 10 680 TDM FLAGSW,0‡ 11400 49 10846 00000 10 690 B PUTETB-12‡ 11408 17 11426 C-074 10 720 NOSPCE BTM ERROR,74,8‡ 11424 5 10 730 DS 5‡ 11426 26 11511 11425 10 740 ERROR TF ERRMSS&20,ERROR-1‡ 11438 39 11491 00100 10 750 WATY ERRMSS‡ 11450 15 00459 0000J 10 760 TDM SKPPCH,1,11‡ 11462 15 00731 00001 10 765 TDM TYST&1 ,1‡ 11474 49 03890 00000 10 770 B CONFMT-20‡ 11481 10 780 DORG *-4‡ 11481 10 780 DORG *-4‡ 11491 12 10 790 ERRMSS DAC 12,ERROR NO. â‡ 11514 16 11523 000-0 10 830 ASCAN TFM OMM1,00,10‡ 11523 2 10 835 OMM1 DC 2 , ,*-2‡ 11526 16 15111 00-00 10 840 TFM ACC,,9‡ 11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220‡								DORG			
11387		32	10896	00000			PETA	SF	ETANE7#		
11388 15 00700 00000 10 680									·	,*‡	
1140C 49 10846 00000 10 690 B PUTETB-12‡ 11408 17 11426 0-074 10 720 NOSPCE BTM ERROR,74,8‡ 11424 5 10 730 DS 5‡ 11426 26 11511 11425 10 740 ERROR TF ERRMSS&20,ERROR-1‡ 11438 39 11491 00100 10 750 WATY ERRMSS‡ 11450 15 00459 0000J 10 760 TDM SKPPCH,1,11‡ 11462 15 00731 00001 10 765 TDM TYST&1 ,1‡ 11474 49 03890 00000 10 770 B CONFMT-20‡ 11481 D TO 780 DORG *-4‡ 11481 10 780 DORG *-4‡ 11491 12 10 790 ERRMSS DAC 12,ERROR NO. @‡ 11514 16 11523 000-0 10 830 ASCAN TFM OMM1,00,10‡ 11523 2 10 835 OMM1 DC 2 , ,*-2‡ 11526 16 15111 00-00 10 840 TFM ACC,,9‡ 11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220‡		15		00000							
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11462 15 00731 00001 10 765											
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11489 9 10 785 ZERO9 DC 9 ,0‡ 11491 12 10 790 ERRMSS DAC 12,ERROR NO. a‡ 11514 16 11523 000-0 10 830 ASCAN TFM OMM1,00,10‡ 11523 2 10 835 OMM1 DC 2 , ,*-2‡ 11526 16 15111 00-00 10 840 TFM ACC,,9‡ 11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220‡		• • •	22070								
11491 12 10 790 ERRMSS DAC 12,ERROR NO. @# 11514 16 11523 000-0 10 830 ASCAN TFM OMM1,00,10# 11523 2 10 835 OMM1 DC 2 , ,#-2# 11526 16 15111 00-00 10 840 TFM ACC,,9# 11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220#			Q				7FRN9				
11514 16 11523 000-0 10 830 ASCAN TFM 0MM1,00,10‡ 11523 2 10 835 0MM1 DC 2 , ,*-2‡ 11526 16 15111 00-00 10 840 TFM ACC,,9‡ 11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220‡											
11523 2 10 835 OMM1 DC 2 , ,*-2‡ 11526 16 15111 00-00 10 840 TFM ΔCC,,9‡ 11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220‡		1.6									
11526 16 15111 00-00 10 840 TFM ACC,,9‡ 11538 16 15020 J6972 10 850 TFM PUTCMH&6,PHI&220‡		10							The state of the s	.#-2±	
11538 16 15020 J6972 10 850 TFM PUTOMH&6,PHI&220‡		14					O.H.L			,	
11550 TO 10004 00101 TO 000 1115 10161040911114121											
	11770	10	10004	00104	10	000		,			

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) _	LOCTN	СР	P/L	C	PG	LN	LABEL	MNEM	OPERANDS A	AND REMARI	KS	PAGE	21
	11562	45	11834	17227	10	870	S	BNR	SSA, CHI&2	‡			
	11574		11523			880		CM	OMM1,33,10				
	11586		11658			890		BE	SSB#	•			
	11597	,,,	1	UILUU		895	FXORFL		1	, *‡			
	11598	14	11523	OCOKM		900	IXCKIL	CM	OMM1,-24,				
	11610		11646			910		BE	*&36 ‡	101			
	11622		11523			920		CM	OMM1,24,1	n±			
	11634		12450			930		BNE	SS ‡	<u> </u>			
	11646		11426			940	ER1	BTM	ERROR	,71		, 8‡	
	11658		12932			950	SSB	BTM	CCDE,,10#	7 1 1		701	
	11670		15814			960	335	BNF	FOF	,EQS₩#			
	11682		11750			970		BD.	863*	,INSTIEL	4 ±		
	11694		11730			980		BD.	*836	,INST2E1			
****	11706		11770			990	EQ2	BNF	EQ3	, INST1E1.			
	11718		11802			000	LVZ	BNF	EQ4	, INST281:			-
	11716 1173C		00696			010		CF	EQSW#	711131261			
	11730		15814			020		В	FOF#				
	11742	47	10014	00000		030			#-3 ‡				
	11750	1.2	11706	12024		040		BD	EQ2	,INST281	4+		
-			11730			050		B	*-32*	11131241			
	11762 11770	47	11130			060		DORG					
	11770	21	12896	12001		070	EQ3	TR	INST162	, INST187	±		
	11782		12901			080	LWJ	TR	INST187	, INST287			
	11702		16042			090	·	В	ZCT&12#	11131241	<u> </u>		
	11802	47	16042	00000		100			*-3 				
_	11802	24	12900	12005		110	EQ4	TF	INST186	, INST1E1	1+		***************************************
,	11814		12905			120	EWT	TF	INST180	, INST2&1			
P —	11826		16030			130		В	Z0T#	114312GI	1+		
	11834	717	10030	COOCC,		140			*-3‡				
-	11834	1.6	17225	COUND		150	SSA	CM	CHI,40,10	+			
	11846		11882			160	33A	BNH	*&36 ‡	•			
_	11858		00697			170		TOM	FSTSW#				
	11870		09474			180		ВТМ	CSORN,S#				
_	11882		17225			190		CM	CHI	,33		,10‡	
	11894		11918			200		BE	* ε24 ‡	, 55		, 10+	
_	11906		00696			210		CF	ECSW#				
	11918		17225			220		CN	CHI,10,10	± .			
_	11930		12142			230		BE	SS001#	· · · · · · · · · · · · · · · · · · ·			
	11942		17225			240		CM	CHI,20,10	±			
_	11954		12130			250		BE	SS4#				
	11966		00697			260		TDM	FSTSW#				
_	11978		17225			270		CM	CHI,4,10#				-
	11970		12294			280		BE	SSCA1#				
	12002		17225			290		CM	CHI,21,10				
	12014		12498			300		BE	SS1#	•			
_	12026		17225			310		CM	CHI,14,10	±			
	12038		12206			320		BE	SS3 ‡				
	12050		17225			330		CM	CHI,24,10	+ .			
	12062		12262			340		BE	SS5#				
	12074		17225			350		CM:	CHI,33,10	‡			The same state of the same state of the
	12014		12570			360		BE	SS6#	•			
-	12098		17225			370		CW	CHI,3,10#				
	12110		11858			380		EE	SSA&24#				
_	12122		11646			39C		В	ER1#				
	12120	1)	11040	00000		400			*-3#				
) –	16130				<u> </u>	700		DUNG	JT				

_(22	PAGE	REMARKS	AND	OPERANDS	MNEM	LABEL	LN	PG	Q	P/L	CP	LOCTN
				=	FLAGSW,5	TDM	\$\$4	410		00005	00700	15	12130
					*&32,FSTS		\$5001	420		C0697	12174	43	12142
			· · · · · · · · · · · · · · · · · · ·	<u> </u>	FLAGSW, 04			430			00700		12154
					\$\$#	В		440		00000	12450	49	12166
		· · · · · · · · · · · · · · · · · · ·	·			DORG		450					12174
					FSTSW,0#			460			00697		12174
				£13	CHI-1,CHI			470			17224		12186
					S 	В		480		00000	11562	49	12198
						DORG		490					12206
				10#	CHI&2,14,		\$\$3	500			17227		12206
		<u> </u>			SS1 			510			12498		12218
					CHI-3,CHI			520			17222		12230
				:	FLAGSW, 54			530			00700		12242
	`				SS2‡	В		540		00000	12546	49	12254
						DORG		550					12262
					FSTSW,1#	TDM	SS5	560			00697		12262
				:	ACC, 1, 104	AM:		570			15111		12274
					PUTOMG#	В		580	11	00000	14990	49	12286
					* -3 +	DORG		590					12294
				.0‡	OMM1,33,1	CM	SSCA1	600	11	000L3	11523	14	12294
					ER1#	BE		610	11	01200	11646	46	12306
				ICH#	SSC , IFS	BNF		620			12354		12318
			•	10+	CHI&2,23,	CM		630	11	000K3	17227	14	12330
					ER7‡			640			04756		12342
			•	.0+	OMM1,24,1	CM	SSC	650			11523		12354
					SSCA#			660			12834		12366
	•			10#	OMM1,-24,			670			11523		12378
—		· · · · · · · · · · · · · · · · · · ·			SSCB#	BE	······	680			12742		12390
				0#	OMM1,46,1			690			11523		12402
					CFCT#			700	11		15462		12414
				0#	OMM1,49,1	CM		710			11523		12426
					TEN#	BE		720			04800		12438
:				0#	OMM1,10,1	CM	SS	730			11523		12450
					CADD#	BE		740			13160		12462
				0±	OMM1,20,1	CM		750			11523		12474
					CSUB#	BE	<u></u>	760	- 11		13444		12486
				n±	OMM1,21,	CM	SS1	770			11523		12498
		···			CDIV#	BE		780			13540		12510
				0.4	OMM1,14,1	CM		790			11523		12522
					CMULT#	BE	· · · · · · · · · · · · · · · · · · ·	800			13520		12534
			•	10±	OMM1,-14	CM	SS2	810			11523		12546
				101	CEXP#	BE		820			15090		12558
					FSTSW.1#	TDM	SS6	830			00697		12570
	· · · · · · · · · · · · · · · · · · ·				INST181,		TFSAVE	840			12895		12582
			·±		*&35,PUT	TF	HUSMAE	850			12629		12594
					*£23,9,10	SM		860			12629		12606
				- T	INST182#	TR		870			12896		12618
				.0±	INST1624	TDM		880			12906		12630
			8. ±		PUTOMG, II	BNF		890			14990		12642
					#820, INS	BNF		900			12674		12654
			/ T	. TOT	PUTOMG#	В		910			14990		
										00000	14770	49	12666
			1C+	£.	#-3# INSTICII	DORG		920		-0040	12005	17	12674
			AC‡		INST1811	TFM	 	930			12905		12674
					PUT1, PUT	BT		940		13975	13976		12686
			47+	AVEC	*&30,TFS	TF		950	7 7				12698

LCCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	23
12710	11	12728	8-000	11	960		ΔM	*818,8,10‡		
12722	32	00000	00000	11	970		SF	‡		
12734	49	12274	00000	11	980		В	\$\$5812#		
12742				11	990		DORG	*-3		
12742	26	12777	10864	12	000	SSCB	TF	#&35,PUTETB&6#		· <u>-</u>
 12754			10864	12	010		TF	*&74,PUTETB&6‡		
12766	31	12901	00000	12	020		TR	INST1&7, #		
 12778	44	12810	12908	12	030		BNF	#832, INST1814#		
12790	33	12908	00000	12	040		CF	INST1&14#		
 12802	49	12822	00000	12	050		В	* &20 		
1281C				12	060		DORG	*-3 		
 12810	32	12908	00000	12	070		SF	INST1&14#		
12822	31	00000	12901	12	080		TR	, INST1&7#		
12834		17224			090	SSCA	TR	CHI-1,CHI&1+		
12846			000-2	12	100		SM	PUTOMH&6,2,10#		
 12858			15020		110		TF	*&23,PUTOMH&6#		
12870			00000		120		TF	OMM1, #		
 12882			00000		130		В	S‡		
12894	26	00060	00000		140	INST1	TF	FAC+		
 12909		4			150		DC	4,0+		
12910	27	00480	00000	12	170	INST2	BT	FAD+		
 12925		4			180		DC	4,0+		
12930		5		12	190		DS	5‡		
 12932	26	12900	16283		200	CODE	TF	INST186, TFFAC+		
12944			000K7		210		TEM	INST2&1,27,10#		
 12956			10864		220		TF	CODA&11, PUTETB&6+		
12968			10864		230		TF	*&23,PUTETB&6#		
 12980			00000		240		TR	INST287#		
12992			000-9		250		SM	*&23,9,10*		
 13004			00000		260	CODA	TR	INST167#		
13016			12924		270		BD	*&26, INST2&14+		
 13028			12908		280		BD	CODC, INST1&14#		
1304C		00000			290		BB	#		
 13042					300		DORG			
13042	43	13114	12908		310		BD	CODD, INST1&14+		
 13054			000JM		320		CM	OMM1,-14,10#		
13066			01200		330	•	BE	FXEXP#		
 13078			000L3		340		CM	OMM1,33,10#		
13090			01200		350		BE	FLOAT#		
 13102			0-075		360	CODF	BTM	ERROR, 75, 8‡	1	
13114			00000		370	CODD	AM	OP,40,10‡		
 13126			00000		380		BB	*		
13128	7 4	30000			390			*- 9‡		
 13128	14	11522	000L3		400	CODC	CM	OMM1,33,10#		
13140			01200		410		BE	FIX+		
 13152			00000		420		8	CODF#		
13160	77	13102	00000		430			#-3#		
 13160	1.4	13675	J6211		440	CADD	TFM	OP,AFAD+		
13172			000-0		450	CHUD	BTM	CGDE,,10+		
			12908		460		BNF	CADDH, INST1614#		· · · · · · · · · · · · · · · · · · ·
13184								CADDK, INST2&14+		
 13196			12924		470		BNF			
13208			00003		480		TOM	FLAGSW, 3‡		
 13220			12923		490	CADDI	BNF	CADDB, INST2813‡		
13232 13244			12901		500	CADDI	TR	INST287, INST187#		
	16	136//	OCOMJ	12	510	CADDC	TFM	COMMON&1,41,1011#		

13264 44 13264 12907 12 520	LOCTN	CP P/L	٠ و	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 24
13264								
13264		49 13004	66066					
13276		(13007			C 4 0 0 0		
12284 16 13677 COCKP 12 570 CADD TFM COMMONEL, 27, 1011* 13296 49 13664 00000 12 580						CAUUB		
13284 16 13677 COCKP 12 570 CADDD TFN COMMONEL, 27, 1011* 13294 49 13646 00000 12 590 B C 13304 44 13372 12924 12 600 CADD BNF CADDJELZ, INSTZEL14* 13316 44 13360 12923 12 610 BNF CADDJELZ, INSTZEL14* 13316 45 13675 000-5 12 630 BNF CADDJELZ, INSTZEL14* 13340 11 13675 000-5 12 630 AN OP, 5, 104* 13360 12 3675 000-5 12 680 CADDJELZ, INSTZEL14* 13360 11 13675 000-5 12 680 CADDJELZ, INSTZEL14* 13372 15 00700 00000 12 680 CADDJELZ, INSTZEL14* 13386 11 13675 000-5 12 680 CADDJELZ, INSTZEL13* 13386 11 13675 000-5 12 680 CADDJELZ, INSTZEL13* 13392 44 13412 12923 12 680 CADDJELZ, INSTZEL13* 13392 44 13412 12923 12 700 CADDK SNF CADDLE, INSTZEL13* 13404 49 13360 00000 12 710 CADDK SNF CADDLE, INSTZEL13* 13412 12 00700 00004 12 730 CADDLE, TOP FLAGSW, 44 13412 12 13675 000-5 12 740 CADDLE, TOP FLAGSW, 44 13412 12 13675 000-5 12 740 CADDLE, TOP FLAGSW, 44 13444 11 13675 000-5 12 740 CADDLE, TOP FLAGSW, 44 13444 11 13675 000-5 12 740 CADDLE, TOP FLAGSW, 44 13444 11 13675 000-5 12 740 CADDLE, TOP FLAGSW, 44 13444 16 13675 J6211 12 770 CSUB TFN OP, 54 DDR 13456 17 12932 000-0 12 780 BTN CODE, 104 13468 44 13500 12924 12 780 BTN CODE, 104 13500 32 12924 00000 12 800 CF INSTZEL14* 13512 49 13184 00000 12 800 CF INSTZEL14* 13512 49 13184 00000 12 800 CF INSTZEL14* 13552 16 13675 J6221 12 800 CHULT TFN OP, AFMP\$ 13552 17 12932 -C0000 12 800 CHULT TFN OP, AFMP\$ 13564 44 13645 12998 CULT TFN OP, AFMP\$ 13565 49 13552 00000 12 800 CHULT TFN OP, AFMP\$ 13664 44 13644 12923 12 940 CMDB SNF		49 13244	00000				_	
13296		17 12722	00000	12	200	64000		
13304						CAUUU		
13304		49 13004	00000					
13316		44 12272	12024			CADDU		
13328 15 00700 00004 12 620		44 13312	12924			CAUUN		
13340								
13352 49 13232 CC000 12 640 B CADDI 13360 1 13675 000-5 12 660 CADDJ AM OP,5,10* 13372 15 00700 CC000 12 670 TDM FLAGSM,* 13384 49 13220 00000 12 680 B CADDI-12* 13392 12 690 DORG =-3* 13404 49 13360 CC000 12 710 TDM FLAGSM,* 13412 12 1375 CCADDK BNF CADDI,*INST2&13* 13412 13416 TOTOO CCCADDK SNF CADDI,*INST2&13* 13412 13416 TOTOO								
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13360		77 13232	<u> </u>					
13372 15 00700 C0000 12 670 TDM FLAGSW, #		11 13675	000-5			CADD.I		
13384 49 13220 00000 12 680 B CADDI-12* 13392 44 13412 12923 12 700 CADDK 8NF CADDL, INST2613* 13404 49 13360 COCC 12 710 B CADDL* 13412 12 700 CADDK 8NF CADDL, INST2613* 13412 15 00700 COCO4 12 730 CADDK TDM FLAGSW, A* 13424 11 13675 COCO 12 730 CADDK TDM FLAGSW, A* 13436 49 13264 00000 12 750 B CADDB* 13444 16 13675 J6211 12 770 CSUB TFM DP, AFAD* 13456 17 12932 000-0 12 780 BTM CODE, 10* 13468 44 13500 12924 12 770 BMF CSUBA, INST2614* 13480 33 12924 00000 12 800 CF INST2614* 13500 32 12924 00000 12 810 B CADD624* 13500 32 12924 00000 12 840 B CADD624* 13512 49 13184 00000 12 840 B CADD624* 13520 13520 13675 J6221 12 860 CMULT TFM DP, AFDP* 13532 49 13552 00000 12 870 B CDIV\$ TFM DP, AFDP* 13540 16 13675 J6231 12 880 DORG *-3* 13550 13550 12 880 DORG *-3* 13540 16 13675 J6231 12 890 CDIV TFM DP, AFDP* 13554 44 13644 12924 12 920 BMF CADDA, INST1614* 13576 44 13644 12924 12 920 BMF CADDA, INST1614* 13632 49 13264 12928 12 910 BMF CADDA, INST1614* 13640 44 13644 12924 12 920 BMF CADDB, INST2614* 13652 47 13653 12994 12 980 CMDB BMF CADDB, INST2614* 13664 41 13676 10000 12 980 CMDB BMF CADDB, INST2614* 13664 41 13676 10000 12 980 CMDB BMF CADDB, INST2614* 13664 41 13676 10000 12 980 CMDB BMF CADDB, INST2614* 13664 41 13676 13975 13 030 CMMCN NOP PUT1, PUT1-1* 13688 44 13712 13677 13 040 BMF *C24*, COMMONE1* 13676 41 13776 13975 13 050 CMMCN NOP PUT1, PUT1-1*						CADOO		
13392								
13392		17 23220	00000					
13404		44 13412	12923			CADDK		
13412						UNDUI.		
13412 15 00700 00004 12 730		., 25500	3333				-	
13424 11 13675 000-5 12 740		15 00700	00004			CADDL		
13436								
13444								
13444			,-				DORG	
13456		16 13675	J6211			CSUB	TFM	OP, AFAD+
13468		17 12932	000-0	12	780		BTM	CODE,,10‡
13492	13468	44 13500	12924	12	790		BNF	CSUBA, INST2&14‡
13500 32 12924 00000 12 830 CSUBA SF INST2&14#	13480							
13500 32 12924 00000 12 830 CSUBA SF INST2&14* 13512 49 13184 00000 12 840 B CADD&4* 13520 12 850 DORG *-3* 13520 16 13675 J6221 12 860 CMULT TFM OP, AFMP* 13532 49 13552 00000 12 870 B CDIV&12* 13540 16 13675 J6231 12 890 CDIV TFM OP, AFDV* 13552 17 12932 -C000 12 900 BTM CODE* 13564 44 13632 12908 12 910 BNF CMDA&11ST1&14* 13576 44 13644 12924 12 920 BNF CMDA&12, INST2&14* 13588 15 00700 00000 12 930 TDM FLAGSW* 13600 44 13264 12923 12 940 CMDB BNF CADDB, INST2&13* 13612 11 13675 000-5 12 950 AM OP, 5, 10* 13632 12 970 DORG *-3* 13632 49 13232 00000 12 96C B CADDI* 13632 12 970 DORG *-3* 13632 41 13588 12924 12 980 CMDA BNF CMDB*12, INST2&14* 13664 15 00700 00005 12 990 TDM FLAGSW, 5* 13656 49 13600 00000 13 000 B CMDB* 13664 13 010 DCRG *-3* 13664 13 1376 13975 13 030 CMMON NOP PUT1, PUT1-1* 13688 44 13712 13677 13 040 BNF *&24,COMMON&1* 13700 27 13996 13995 13 050 BT PUT2, PUT2-1*	13492	49 13184	00000					
13512								
13520						CSUBA		·
13520		49 13184	00000			<u> </u>		
13532						C. W. W. T.		
13540						CMULI		
13540 16 13675 J6231 12 890 CDIV TFM OP,AFDV‡ 13552 17 12932 -0000 12 900 BTM CODE‡ 13564 44 13632 12908 12 910 BNF CMDA,INST1&14‡ 13576 44 13644 12924 12 920 BNF CMDA&I2,INST2&14‡ 13588 15 00700 00000 12 930 TDM FLAGSW‡ 13600 44 13264 12923 12 940 CMDB BNF CADDB,INST2&13‡ 13612 11 13675 000-5 12 950 AM OP,5,10‡ 13624 49 13232 00000 12 960 B CADDI‡ 13632 12 970 DORG *-3‡ 13632 44 13588 12924 12 980 CMDA BNF CMDB-12,INST2&14‡ 13644 15 00700 00005 12 990 TDM FLAGSW,5‡ 13656 49 13600 0C000 13 000 B CMDB‡ 13664 26 12916 C0000 13 020 C TF INST2&6‡ 13676 41 13976 13975 13 030 COMMON NOP PUT1,PUT1-1‡ 13688 44 13712 13677 13 040 BNF *&24,COMMON&1‡ 13700 27 13996 13995 13 050 BT PUT2,PUT2-1‡		49 13552	2 00000				-	
13552		14 12476	(22 1			CDIV		
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13576								
13588 15 00700 00000 12 930								
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13632								CADDI‡
13632 44 13588 12924 12 980 CMDA BNF CMDB-12, INST2614‡ 13644 15 C0700 00005 12 990 TDM FLAGSW,5‡ 13656 49 13600 0C000 13 000 B CMDB‡ 13664 13 010 DCRG *-3‡ 13664 26 12916 C0000 13 020 C TF INST266‡ 13676 41 13976 13975 13 030 COMMON NOP PUT1, PUT1-1‡ 13688 44 13712 13677 13 040 BNF *624, COMMON&1‡ 13700 27 13996 13995 13 050 BT PUT2, PUT2-1‡								+-3 ‡
13644 15 C0700 C0005 12 990 TDM FLAGSW,5‡ 13656 49 13600 CC000 13 CC B CMDB‡ 13664 26 12916 C000C 13 CC TF INST2&6‡ 13676 41 13976 13975 13 CC CMMCN NOP PUT1,PUT1-1‡ 13688 44 13712 13677 13 CC BNF +&24,COMMON&1‡ 13700 27 13996 13995 13 CO BT PUT2,PUT2-1‡			12924	12	980	CMDA		
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13688 44 13712 13677 13 040 BNF +624,COMMON&1+ 13700 27 13996 13995 13 050 BT PUT2,PUT2-1+								
13700 27 13996 13995 13 050 BT PUT2,PUT2-1#						COMMON		
13712 12 10864 COOJS 13 USU SM PUIEIS60,18,1UF								
	13712	12 10864	+ C0018	13	OOO		2H	PUICIDGO, 10, 1U+

LOCT	N CP	P/L	Q	PG LN	LABEL	MNEM	OPERANDS A	AND REMARK	(S PAGE	25	
1372	4 26	17213	15111	13 070		TF	SYM, ACC#				
1373		09473		13 080		TFM	CSORN-1, #8	£20‡			
1374		08280		13 090		В	SMTLU#				
1375				13 100		DORG	*- 3 				
1375	6 26	13786	10864	13 110		TF	* &30, PUTET	F8381			
1376	8 11	13786	000-6	13 120		AM	*818,6,10	ļ			
1378		00000		13 130		SF	‡				
1379	2 12	15020	000-2	13 140		SM	PUTOMHE6,2				
1380		13827		13 150		TF	*&23, PUTO	4H&6#			
1381		11523		13 160		TΕ	OMM1+				
1382		17225		13 170		CM	CHI,4,10#				
1384		12354		13 180		BE	SSC#	~ -		•	
1385		13872		13 190		BNR	*820,CHI82	2‡			
1386		11574	00000	13 200		В	S&12‡				
1387		13003	00011	13 210			*-3‡				
1387		17227		13 220		CM:	CHIE2,14,1	LUŦ			
1388 1389		12230 11523		13 230 13 240	<u> </u>	BE CM	SS3824# DMM1,24,10) 			
				13 240		BE	PUTOMG#) +			
1390 1392		14990 11523		13 260		CM	OMM1,-24,	10+			
1393		14990		13 270		BE	PUTOMG#				
1394		11523		13 280	•	CM	OMM1,33,10) ±			
1395		14990		13 290		BE	PUTOMG#	•			
1396		11502		13 300		B	S,,5#				
1397		IIJOL	00000	13 310			* −3 ‡				
137				13 320	*CUTP		JT INES#				
1397	76 16	14031	J2894	13 330	PUT1	TEM	PUT2&35, I	VST1#			
1398		140-8		13 340		В	PUT2812,,				
1399	36			13 350		DORG	*-3‡				
1399	6 16	14031	J2910	13 360	PUT2	TEM	PUT2835,	INST2‡			
1400	8 31	00000	14758	13 370		TR	CUT	,SUBI‡			
1402		00060		13 380		TR	#083TU0				
1403		14088		13 390		BD	*856	,OUT&72#			
1404		14088		13 400		BD	* £44	,OUT&73‡			
140		14521		13 410		TEM	PUTX-1,12				
1406		00000		13 420		TR	CUT	+001860+			
1408		14522	00000	13 430		В	PUTX#				
1408				13 440			#-3‡	01176701			
			00072	13 450			*-32	,OUT&72#			
1410		00073		13 460		CF	0UT&73#	1.5	104		
141		00073		13 470		MM	0UT & 73	,15	,10#		
1412		14159		13 480		TFM S	*835,TOP&	1+			
1413		14159 00081		13 490 13 500		TR	*&23,99# OUT&81#				
1414		00047		13 510		TF	OUT & 47	,0UT&71#			
1416		14196		13 520	· · · · · · · · · · · · · · · · · · ·	SNF	*824	+83XTU9,			
141		00047		13 530		TF	OUT & 47	+00T&66#			
1419		14324		13 540		BNR	3L2	*001890#			
1420		00059		13 550	BL1	TF	0UT&59	+883TUO,			
1427		00000		13 560	<u> </u>	TR	OUT	,DUT&36#			
142		00006		13 570		TE	93100	,L‡			
1424		00000		13 580	***************************************	AM	0 018 6	,35#		*.	
142		14280		13 590		BNE	*£24	,PUTX&8#	•.		
			000-5	13 600		SM	00TE6	, 5	, 10‡		
1426											

	LOCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 26
	14292	12	00018	000-1	12	620		SM	OUTE18 ,1 ,10‡
	14304		14521			630		TFM	PUTX-1,36,10+
	14314		14521			640		8	PUTX+
	14324	77	17722	00000		650			*-3‡
	14324	44	14344	00094		660	BL2	BNF	#620 •OUT694#
	14336		14208			670	DEL	В	BL1‡
	14344	7,	14200	00000		680		_	*-3
	14344	16	14521	000P2		690		TFM	PUTX-1,72,10+
	14356		00042			700		A	OUT642 ,L‡
	14368		00054			710		A	OUT&54 ,L‡
	14380		00006			720		TF	OUT&6 .DUT&94+
	14392	26	00011	00084		730		TF	OUT&11 ,OUT&84#
	14404		00035			740	:	TF.	OUT&35 ,OUT&89‡
	14416	44	14452	14530		750		BNF	#836 ,PUTX88#
	14428		00042			760		SM	OUT&42 ,5 ,10‡
	14440		00054			770		SM	OUT&54 ,5 ,10+
	14452		14522			780		BNF	PUTX •OUT&35+
	14464		00042			790		SM	OUT 642 , 12+
	14476			-0012		800		SM	OUT&54 ,12‡
	14488			00036		810		TR	OUT&24 ,OUT&36‡
	14500		14521			820		TFM	PUTX-1,60,10‡
	14512	49	14522	00000		830		В	PUTX#
	14522		14500	00200		840	DUTY		*-1*
	14522		14522			850	PUTX	CF	##
	14534		14555			860		TF B	PUTPHI-1,PUTX-1+ PUTPHI&12+
	14546	49	14568	00000		870 880		-	- PUIPHIGI2# - #-1#
	14556 14556	33	14522	00000		890	PUTPHI	SF	PUTX#
	14568			J6669		900	POIPHI	CM .	PUTTD&6,BUFBAS&75#
	14580			01300		910		BNL	DUMP#
	14592			14522		920		BNF	#&36,PUTX#
	14604			16752		930		TD	OUT ,PHI+
	14616			16753		940		TR	PHI,PHIE1#
	14628			00000		950	PUTTD	TD	BUFBAS ,OUT ,2‡
	14640		00000			960		TR	CUT ,OUT&1#
_	14652	11	16135	-0001		970	·	AM	L,1‡
	14664			-0001		980		AM	PUTTD&6,1#
	14676			000-1		990		SM	PUTPHI-1,1,10#
	14688			C11C0		000		вР	PUTPHI&12+
	14700			00000		010		BB	‡
	14702				14	020			; *- 9‡
	14702			J6594		030	DUMP	TFM	PUTTD&6,BUFBAS+
	14714			00459		040		BD	#&24,SKPPCH*
	14726			00400		050			LCAD-4‡
	14738			16135		060		TF	LOAD,L‡
	14750	49	14592	00000		070		В	PUTPHI&36#
	14758					080	0115		5 *-3 ‡
	14758			-0000		090	SUBI	MM	• • • • • • • • • • • • • • • • • • •
_	14770			00000		100		SF	96‡
	14782			-0000		110		A	99,,27‡
	14794			-0000		120		TFM	71,,27‡
	14806	22	-0,070	-0099		130		S	70,99,27‡
	14818	22	14394	000.0		140	P.C.O.	DC CF	1,0 # BRINST&2,,10 #
	14820			000-0		150 160	BGO	TR .	89,BRINST#
_	14832	21	. 00089	16284	14	100		117 .	CZYUNINGIT

LOCTN	СP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 27
14844	31	00096	16345	14	170		TR	96, CRAM-4+
14356	26	88000	16141	14	180		TF	88,LODER#
14868	33	00084	00000	14	190	COMGO	CF	84‡
14880	14	14958	J6744	14	200		CM	GDER&6 ,IMAGE&75‡
14892	47	14952	01300	14	210		BL	GCER‡
 14904		14928			220		BD	*&24,SKPPCH+
14916		16669			230			IMAGE‡
14928		14958			240		TFM	GOER&6, IMAGE‡
14940	15	16669	00000		250		TDM	IMAGE‡
14951		1			260		DC	1,0,**
14952	31	J6669	00084		270	GOER	TR	IMAGE ,84 ,2‡
 14964		00079		14	280		TDM	79‡
14975		1			290		DC	1,0,**
 14976	11	14958	-0015		300		AM	#-18 , 15‡
14988		00000			310		ВВ	*
 14990					320			*-9*
14990	43	15058	00700		330	PUTOMG		*E68,FLAGSW
 15002		15020			340		AM	*£18,2 ‡
15014		00000			350	PUTOMH		,CHI‡
 15026		11523			360	10.0.,,,	TF	OMM1,CHI+
15038		17224			370		TR	CHI-1, CHI &1+
 15050		11562			380		В	S#
15058	77	11702	00000		390			+−3 ‡
 15058	22	17225	00000		400		SF	CHI#
15070		00700			410		TDM	FLAGSW#
		15002					В	PUTOMG&12#
15082	49	15002	00000		420		_	
15089					430			#-4‡
13675	1,	5	1/2/1		440	OP	DS	5,C&11+
 15090		13675			460	CEXP	TFM	OP, AFXP+
15102	1 /	12932	000-0		470	466	BTM	CODE,,10#
 15111	1.5	3	00001		475	ACC	DS	3 ,#-2#
15114		16200			480		TDM	USEDFS&44 ,1#
 15126		16198			490		TDM	USEDFS&42,1‡
15138		15162			500		BNF	*624, INST2614*
 15150		13675			510		AM	OP,5,10‡
15162		15290			520		BNF	CEXPA, INST2613‡
 15174		15446			530		TR	TEMP, INST187+
15186		12908			540		TFM	INST1814,,8‡
 15198		12900			550		TF	INST186 , INST2811+
15210		12905			560		TFM	INST1811 ,FAC+
 15222		13976			570		BT	PUT1,PUT1-1#
15234		12901			580		TR	INST1&7, TEMP#
 15246		12900			590		TF	INST186,TFFAC+
15258		15366			600		BNF	CEXPB, INST1613#
 15270		13976			610		BT	PUT1 PUT1-1+
15282	49	15302	00000		620		В	CEXPA&12‡
 15290					630			*−3 ‡
15290		15366			640	CEXPA	BNF	CEXPB, INST1613#
 15302		15346		14	650		BNF	CEXPC, INST1&14+
15314	26	12905	16335	14	660		TF	INST1811,RVINST811#
 15326	16	13677	CCOKP	14	670	CEXPD	TFM	COMMONE1,27,1011#
 15338	49	13664	00000		680		В	C‡
					690		DORG	*-3
12240								
 15346 15346	16	13677	CCOMJ	14	700	CEXPC	TFM	COMMONE1, 41, 1011 #

15366 15366 15378 15390	· · · · · · · · · · · · · · · · · · ·					MNEM			28	
15378				14 720)	DORG	* -3 ‡			
	44	15326	12908	14 730	CEXPB	BNF	CEXPD, INST1814#			
	31	15446	12910	14 740		TR	TEMP, INST2#			
		12922		14 750		TF	INST2&12, RVINST&12#			and the second s
15402		13976		14 760		ВТ	PUT1,PUT1-1#			
15414		13996		14 770		ВТ	PUT2,PUT2-1#			
15426		12910		14 780		TR	INST2, TEMP#			
15438		15346		14 790		В	CEXPC+			
15446	7,	טדיכנו	00000	14 800			#-3‡			
15446		1		14 81		DS	1‡			
							15‡			
15461	17	15 12932	000	14 820		DS	CCDE,,10#			
15462						BTM				
15474		12916		14 84		TF	INST2&6, INST1&11+			
15486		17222		14 85		TR	CHI-3,CHI-1#			
15498		15590		14 86		BNF	CFCTA, INST2&14+			
15510		15646		14 87		BNF	CFCTB, INST2&13+			
15522		15546		14 88		BNF	*824,INST1814*			
15534	15	00700	00002	14 89	0	TDM	FLAGSW,2#			
15546	16	13677	CCOKP	14 90	0	TEM	COMMON&1,27,1011#			
15558	31	12894	16324	14 91	0	TR	INST1,RVINST#			
15570	16	12921	-0060	14 92	0	TFM	INST2&11,FAC#			
15582			C00C0	14 93		В	CCMMON#	V-1 V -/4		
15590				14 94		DORG	*-3 ‡			
15590	44	15714	12923	14 95		BNF	CFCTC, INST2613#			
15602			COOMJ	14 96		TFM	COMMONE1,41,1011#			
15614			12908	14 97		BNF	CFCTA-20, INST1614+			
			00002	14 98		TDM	FLAGSW, 2+			
15626						В	CFCTA-20‡		<u></u>	
1,5638	49	15570	00000	14 99		_				
15646		15/30	10000	15 00			#-3#			
15646		15670		15 01		BNF	*624, INST1614*			
15658			00002	15 02		TDM	FLAGSW,2#			
15670			16283	15 03		TF	INST1&6,TFFAC+			
15682			12917	15 04		TR	INST1&7, INST2&7#			
15694	27	13976	13975	15 05		BT	PUT1,PUT1-1+			
15706	49	15546	00000	15 06	0	В	CFCT&84‡			
15714				15 07	0	DORG	#- 3 ‡			
15714	16	13677	COOMJ	15 08	O CFCTC	TFM	COMMON&1,41,1011#			
15726			12908	15 09		BNF	CCMMON, INST1814#			
15738			00002	15 10	_	TDM	FLAGSW, 2#			
15750			00000	15 11		В	COMMON#			
15757	7,	130.0		15 12			#-4‡			
15758	16	15940	J6292	15 13		TFM	TWAGS&11,FIX2+			
			00000	15 14		В	*820 [‡]			
15770	47	10190	00000	15 15	0		*-3*			
15778		150/0	1/200			TEM	TWAGS&11,FLOAT2#			
15778			J6308	15 16						
15790			000K7	15 17		TFM	SSBCD&13,27,10#	•		
15802			00000	15 18		CF	EQSW#			
15814			12901	15 19		TR	TEMP, INST187#			
15826			12917	15 20		TR	INST187, INST287#			
15838			16292	15 21		TR	INST2,FIX2+			
15850	44	15870	12907	15 22	0	BNF	*&20,INST1&13#	·		
15862			00000	15 23	0	В	* &20 			
15870				15 24		DORG	* - 3‡			
15870	27	13976	13975	15 25			PUT1,PUT1-1#			
15882			13995	15 26		NOP	PUT2, PUT2-1+			

COMPUTER TECHNOLOGY

	LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	29
	15894	44	15930	12908	15	270		BNF	*&36,INS	Γ1814‡		
	15906			16324		280		T3	INST2,RV			
	15918			13995		290		вт	PUT2, PUT			
	1593C			15446		300		TR	INSTIET,			
	15942		16081			305		TR	TRAREC&1	,INST1E7#		
	15954			12905		310		TF	INST186	, INST1811+		,
	15966			-0060		320		TEM	INST1E11	,FAC‡		
	15978		15883			330		TEM	SSBCD&13	,41	,10#	
	15990			-00696	15	350	TRACE	NOP	* &20	,EQSW#		
	16002			CCOCO		360		В	ZCT+		****	
	16010				15	370		DORG	* -3 +			
	16010	31	12894	16074		380		TR	INST1	,TRAREC-6#		
	16022			00000	15	390		В	Z0T&12#			
-	16030					400		DORG	* -3 ‡			
	16030	32	14530	00000		410	ZOT	SF	#83XTUP			
	16042			13975		420		вт	PUT1	,PUT1-1#		
	16054			00000		430		CF	₽UTX&8 ≢	•		
	16066			00000		450		В	TESTDC#	······································		
	16074					460		DORG	*-3 ‡			
	16075		2			470		DC	2,17#			
	16080			-2586		480	TRAREC		TRACX#	•		
	16085		5			490		DC	5,-90500			
	16089		4			500		DC	4, @ #			
-	16090	16	13675	J6125		510	FXEXP	TFM	OP, *835#			
	16102			00000		520		TDM	FXORFL#			
	16114			-2000		530		В	CEXP&48,	FAXI.7#		
	16130	7,		-1964		540		DSA	FAXIN#			
	16135		5			550	L	DS	5#			
	16136		í			560	_	DC	1,0#			
	16141		5		15		LODER	DS	5‡			
	16142		í			580	CODE	DC	1, a +			
	02452					590	STCPSR		2,00	,2452#		
	02562					600	ENDSR	DS		,2562‡		
	02586					610	TRACX	DS		,2586‡		or many v
	02000					620	FAXI	OS		,2000‡		
	01964					630	FAXIN	DS		,1964‡		
	03914					640	COMPLT	-		,3914	,	,LAST
	02834					650	RATY	DS		,2834‡		
	02758					660		DS		,2798#		
***	02882					670	WACD	DS -		,2882‡	The state of the s	
	02918					680	WATYSC			,2918‡		
	02954					69C	WATY	DS		,2954	,	, WATY
	02934					700	SWC	DS		,3938	• •	NUMBI
	02726					710	LTPAR	DS		,2726‡	7	71101.15
	03574			•		720	RTPAR	DS		,3574‡		
						730	HTYPE	DS		,3690‡		
	03690					74 0	XTYPE	DS		,3654‡		
	03654					750	SLASH	DS		• 3298‡		
	03298					770	EQSW	DS DS		•BA&2‡		
	00696					780	FSTSW			• BA&3+		
	00697							DS DS	•			
	86900					790	SESWCH			,BA&4=	· · · · · · · · · · · · · · · · · · ·	
	00699					800	DMSWCH			,8A&5‡		
	<u> </u>				15	810	FLAGSW		·····	,8A&6‡		
	00701			*		820	DOSWCH			,BA&7#		
	00702				- 15	830	IFSWCH	U.S		•BA&8‡		

	LCCTN	CP P/L	Q	PG	LN	LABEL	MNEM	OPERANDS A	ND REMARKS	PAGE	30	 O
	16145	. 6		15	860	FRMSCT	חאר	6,FORMAT#		,		
	16156	1			870	USEDFS		1,0#				
	16205	49			880	0320.3	DC	49,0#			i	
	16206	1			890		DC	1,0#				
	02298	•			900	FIX1	DS		,2298#			
	02392				910	FLOAT1			,2392‡			
	00060				920	FAC	DS		,60 ‡			
	00480				930	FAD	DS		,480‡			
	16211	5			940	AFAD	DC	5	, 480‡			
	16216	5			950	AFSB	DC	5	,420‡			
	16221	5			960	AFMP	DC	5 .	·1128#			*
	16226	. 5			970		DC	5	,1128‡			
	16231	5		15	980	AFDV	DC	5	,1382#			
	16236	5	1.24		990	AFDVR	DC	5	,1346#	·		
	16241	5		16	000	AFXP	DC	5.	,2188#			
	16246	5			010	FAXBN	DC	5	,2152#			
	16251	5		16	020	FXA	DC	5	,1614#			
	16256	5			030	FXS	DC	5	, 1590 			
	16261	5		16	040	FXM	DC	5	,1644#			
	16266	5		16	050		DC	5	,1644#			
	16271	5	¥	16	060	FXD	DC	5	,1722#			
	16276	5			070	FXDR	DC	5	,1686‡			
	01816			16	080	RVSGN	DS	0	,1816‡			
	16283	7		16	090	TFFAC	DC	7	,2600060‡			
	16284	M9 00000	00000	16	110	BRINST	В	,,0‡				
	16291	1		16	120		DC	1,2,=-4+				
	16292				130			*−3 ‡				()
	16292	K7 02298	02297	16	140	FIX2	BT	FIX1,FIX1-	-1,0‡	,		
	16307	4			150		DC	4,0#				
	16308	K7 02392	02391	16	160	FLOAT2	BT	FLOATI, FLO	DAT1-1,0#			
	16323	4			170		DC	4,0+				1
	16324	K7 01816	01815	16	180	RVINST	BT	RVSGN, RVS	SN-1,0#			
	16339	4			190		DC	4,0#				
	16348	9		16	200		DC	9,2				
	16349	1			210	CRAM	DC	1,0#				
	16350	15240	00000		350	LROUT	TDM	240	7	,23‡		
	16361	1			360		DC	1,2,##				
	16362	36 00080			370		RNCD					
	16374	49 00104	00000		380	· · · · · · · · · · · · · · · · · · ·	В	104#				
	16382				390			*- 3 				
	16382	44 00092			400		BNF	92	,161‡			
	16394	49 00104			410		В	104‡				
	16406	26 00074			420		TF	74	,164‡			
	16418	26 00000			430		TF		, 174‡			
	16430	31 -0160			440	LROUT2		160	,175	•2#		
	16442	45 00056			450		BNR	56	, 160‡			
	16454	36 00160			460		RNCD					,
	16466	44 00032			470		BNF	32,160‡				
	16478	26 00146			480		TF	146,164#				
	16490	31 00000			490		TR	,165‡				
	16502	49 00104	00000		500		В	104,60000	, 7‡			
	16510				510			* -3 				
	16511	20			520	EOC	DAC	20, PROCES	SING COMPLE	TE9#		
	16551	ϵ			530	LSTM	DAC	6	,STARTO+			
-	16563		3	16	540	OVERL	DAC	8,OVERLA	Pa‡			
						*.				4.5		

00000						LABEL	351116,15	OPERANDS AND REMARKS PAGE 31
					550	OUT	DS	• 0 =
16583		6			570	MEMCAP	DC	6,19999@#
16588		5			580	FCTEND		5‡
16593		5		16	590	LOAD	DS	5‡
16594		1		16	600	BUFBAS		1‡
16668		74		16	610		DS	74‡
 16669		1		16	620	IMAGE	DS	1‡
16748		79		16	630		DS	79‡
16752		4		16	640	PHI	DS	4‡
17212		460		16	650		DS	460‡
17213		1		16	660	SYM	DS	1#
 17223		10		16	670	COMP	DS	10‡
17225		80		16	690	CHI	DAS	80‡
17384	11	17411	COOKO	16	980	LAST	AM	*827,20,10
17396	15	00000	00000	16	990		TDM	‡
17406		1			000		DC	1,0,*-1‡
17408	31	_	17405		010		TR	19999,*-3,2‡
1742C			00000	17	020		BNR	LAST#
17432			17414		030		TF	MEMCAP-1, #-18#
 17444			16582	17	040		TF	FCTEND, MEMCAP-1#
17456			00500		050		RACD	
17468			17841	17	060		TD	NO-3,CCD+
17480			17843		070		TD	NO-2,CCD&2+
17492			17845	17	080		TD	NG-1,CCD&4#
17504			17847		090		TD	NO,CCD&6‡
			17848		100	TRY	TR	CCD-1,CCD&7+
17516						INI	CM	NO#
17528			-0000		110		BE	CHIGO#
17540			01200		120			
17552			17849		130	···	BNR	*&24,CCD&8*
17564			00500		140		RACD	CCD‡
17576			00-00		150		TFM	CCC&8,,9‡
17588			17847		160		TF	CCC&6,CCD&6‡
17600			16588		170		TF	*&18,FCTEND‡
17612			18011		180		TF	*83DDD
17624			00010		190		SM	FCTEND, 10, 10 +
17636			J8000		200	•	TFM	#&35,CCC-3‡
17648			000-2	17			MA	*&23,2,10*
1766C			18002	17	220		BD	*-12,CCC-1‡
 17672	26	17690	17671		230		TF	*&18,*-1*
17684			17826		240	-	TR	,FRECK+
 17696	26	17714	16588	17	250		TF	#&18,FCTEND#
17708	26	00000	18011	17	260		TF	,CCC&8 ‡
17720	12	16588	00000	17	270		SM	FCTEND, 10, 10 +
17732			000-1		280		SM	NC,1,10‡
17744			00000		290	_	В	TRY+ /
17752					300			*-3*
17752	16	J7225	000-0		310	CHIGO	TFM	CHI,,210‡
17763		1			320		DC	1,0,**
17764	11	17758	000-2		330		AM	*-6,2,10 [‡]
17776			J7384		340		CM	*-18 ,LAST*
17788			C1300		350		BL	CHIGO+
 17800			00000		360		TDM	OUT&79‡
17811	1)	1	00000		370		DC	1,2,**
 17812	40		00000		380.		В	MOON7#
17812	. 77	00000	00000		390			#-4‡

CCTN CP P/L Q PG LABEL MNEM CPERANDS AND REMARKS PAGE 32 17823 5 17 400 NO DC 5, C\$ 17824 17826 46 0000 C0000 17 410 DS 1 1 1 1 1 4 30 DC 1, a* 17841 4 17 440 CCD DAC 4, AAAA 17849 4 17 450 DAC 4, AAAA 17857 4 17 460 DAC 4, AAAA 17865 4 17 470 DAC 4, AAAA 17881 4 17 490 DAC 4, AAAA 17881 4 17 490 DAC 4, AAAA 17888 4 17 500 DAC 4, AAAA 17905 4 17 500 DAC 4, AAAA 17905 4 17 500 DAC 4, AAAA 17913 4 17 500 DAC 4, AAAA 17921 4 17 540 DAC 4, AAAA 17921 4 17 550 DAC 4, AAAA 17921 4 17 550 DAC 4, AAAA 17937 4 17 550 DAC 4, AAAA 17945 4 17 570 DAC 4, AAAA 17953 4 17 550 DAC 4, AAAA 17961 4 17 560 DAC 4, AAAA 17961 4 17 600 DAC 4, AAAA 17961 4 17 600 DAC 4, AAAA 17961 4 17 600 DAC 4, AAAA 17965 4 17 600 DAC 4, AAAA 17961 4 17 600 DAC 4, AAAA 17961 4 17 600 DAC 4, AAAA 17993 4 17 620 DAC 6, AAAAAA 17993 4 17 620 DAC 6, AAAAAA 17993 4 17 620 DAC 6, AAAAAAAA 17993 4 17 620 DAC 6, AAAAAAAAA 17993 4 17 620 DAC 6, AAAAAAAA 17993 4 17 620 DAC 6, AAAAAAAAAA 17993 4 17 620 DAC 6, AAAAAAAAAA 17993 4 17 620 DAC 6, AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		·											
17824	LOCTN	GP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND	REMARKS	PAGE	32 ()
17824	17823		5		17	400	NO	DC	5,0‡				
17838			1					DS					
17841 4 17 440 CCD DAC 4,AAAA‡ 17849 4 17 450 DAC 4,AAAA‡ 17857 4 17 460 DAC 4,AAAA‡ 17865 4 17 470 DAC 4,AAAA‡ 17873 4 17 480 CAC 4,AAAA‡ 17881 4 17 490 DAC 4,AAAA‡ 17889 4 17 500 DAC 4,AAAA‡ 17897 4 17 510 DAC 4,AAAA‡ 17905 4 17 520 DAC 4,AAAA‡ 17913 4 17 530 DAC 4,AAAA‡ 17921 4 17 540 DAC 4,AAAA‡ 17929 4 17 550 DAC 4,AAAA‡ 17929 4 17 550 DAC 4,AAAA‡ 17937 4 17 560 DAC 4,AAAA‡ 17937 4 17 560 DAC 4,AAAA‡ 17937 4 17 560 DAC 4,AAAA‡ 17945 4 17 570 DAC 4,AAAA‡ 17953 4 17 590 DAC 4,AAAA‡ 17969 4 17 600 DAC 4,AAAA‡ 17969 4 17 600 DAC 4,AAAA‡ 17977 4 17 610 DAC 4,AAAA‡ 17977 4 17 610 DAC 4,AAAA‡ 17985 4 17 620 DAC 4,AAAA‡ 17993 4 17 630 DAC 4,AAAA‡ 17993 4 17 650 DAC 1,A‡ 17002 DAC 4,AAAAA‡	17826	46	00000	00000	17	420	FRECK	BI	‡				
17849	17838		1		17	430		DC	1, â ‡		•	Ţ	,,,
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17929	17913		4		17	530		DAC					
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	14475	ACC	10340 11570 13070
	15940	AFAD	12440 12770
_	15980	AFDV :	12890
	1599C	AFDVR	
	15960	AFMP	12860
	15950	AFSB	
	16000	AFXP	14460
	10830	ASCAN	01120 01150 03940
	00854	AVOID	01050
-	00310	BA	00160 00290 00330 15770 15780 15790 15800 15810 15820 15830
	0008C	BEGIN	00220 00230 00240 00250 00600 01340 01566 02064 02340 03220
		DEGIN	04430 04900 05010 05190 05510 05620 05670 08560
	05860	BEREC	05360 05580
-	14150	BGO	00960 00960 02260 02260 05660 05660
	01200	BLNK1	00980 01010 01020 01040
-	01030	BLNK2	01216
-	13550	BL1	13670
	13660	BL2	13540
_	00390	BRC	00340 02060 02330 03210 03210
	13020	C	12520 12580 14440 14680 14710
	12440	CADD	11740 12810 12840
	12540	CADDB	12490 12750 12940
_	12510	CADDC	12550
	1257C	CADDD	12540
	12600		12460
	12500	CADDI	12640 12680 12960
	12660	CADDJ	12600 12610 12710
	12700	CADDK	12470
	12730	CADDL	12700
	17670	ccc	17150 17160 17180 17200 17220 17260
	17440	CCD	17050 17060 17070 17080 17090 17100 17100 17130 17140 17160
	12890	CDIV	11780 12870
	1446C	CEXP	11820 15530
	14640	CEXPA	14520 14620
	14730	CEXPB	14600 14640
	14700	CEXPC	14650 14790
	14670	CEXPD	14730
	14830	CECT	11700 15060
	14950	CFCTA	14860 14970 14990
	15010	CFCTB	14870
	1508C	CFCTC	14950
	08670	CFXN	00630 01920 02660 02780 03460 04600 04770 04980 05200 05780
		•	06550 08410 08470 08780 08790 08810 08840 08870 10530
	03300	CHCHI	02500 02580 02640 02710 02710 02730 02750 02750 02770 03070
	03300	01:0111	03250 03470 03470
	16690	CHI	00170 00180 00210 00320 00380 00510 00520 00520 00550 00570
	10090	CITI	00590 00610 00780 00970 01060 01200 01200 01240 01270 01290
			01310 01330 01334 01350 01370 01420 01440 01460 01480 01510
			01530 01550 01574 01591 01595 01595 01600 01630 01630 01640
			01660 01660 01700 01700 01740 01750 01750 01800 01800 01810
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			01830 01830 01890 01990 02020 02030 02030 02050 02120 02200
			02310 02310 02320 02360 02380 02400 02490 02510 02530 02550
			02570 02600 02630 02650 02650 02720 02740 02740 02760 02990
_			03060 03240 03270 03270 03300 03480 03500 03550 03550 03700
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			03060 03240 03270 03270 03300 03480 03500 03550 03550 03700 03700 03700 03620 03820 03850 03850 03890 03890 04060 04080 04090 04090 04100 04340 04340 04400 04590 04590 04630 04730
			03060 03240 03270 03270 03300 03480 03500 03550 03550 03700 03700 03700 03720 03820 03820 03850 03850 03890 03890 04060 04080 04090 04090 04100 04340 04340 04400 04590 04590 04630 04730 04730 04740 04810 04940 04940 04950 05060 05060 05100 05140
			03060 03240 03270 03270 03300 03480 03500 03550 03550 03700 03700 03700 03620 03820 03850 03850 03890 03890 04060 04080 04090 04090 04100 04340 04340 04400 04590 04590 04630 04730

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			17310									
17310	CHIGO	17120									· .	
12980	CMDA		12920									
12940	CMDB	12980	13000									
09600	CMPAR	-09520										
12860	CMULT	11800										
12260	CODA	12220										
12400	CODC	12280										
12370	CODD	12310										
12200	CODE	10950	12450	12780	12900	14470	14830					
12360	CUDF	12420										
14190	COMGO		05470	08040	08040							
03850	COMM	01390										
16670	COMP		07850	07890	07900	07910	07940	07950	08100	08130	08150	
01591	CONIO	02060										
16210	CRAM		05460	06050	06080	06595	07600	14170				
09010	CS				08960			1.110		· · · · · · · · · · · · · · · · · · ·		
08890	CSORN				04670			06790	08290	08870	10180	
00030	COUNIN		13080	0000	04010	04100	07170	00170	00270	00010	10100	
12770	CCUB		13000									
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03810	DIM	01320	 			·						
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08350	DMM	08050										
04590	DC	01180						.=				
06870	DOI				07170							
07400	DOIT				06950			07020	07040	07070	07220	
04920	DSADO				04820	<u>04860</u>	04870					
14030	DUMP		06690									
02820	EFIND		02620	02700	03450							
04730	ELL	04810										
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06660	END	01580							•			
15600	ENDSR	06630										
06630	ENDX	06420	06660									
16520	ECC	07580							•		,	
15770	EQSW			11210	15180	15350						
10990	EQ2	11040										
11070	EQ3	10990										
11110	EQ4	11000										
10740	ERROR			02470	02980	03310	04020	04120	04660	08090	08610	
20110					10940							-
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04120	FUL			10630								
04120	ETAC	00150		10030								
10220	ETAC					10140	10170	10270	10200	10220	10420	
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10220 10200	ETAN	10000 10640	10010 10670	10020		10140	10170	10270	10280	10330	10630	
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	15920	FAC		04470	04500	11930	12140	14560	14920	15320			
	15930	FAD	12170		10:00	10510	10500						
h	10550	FAGR	10390	10440	10500	10510	10590						
<u></u>	16010	FAXBN	15500		 								
	15620	FAXI	15530										
	15630	FAXIN	15540										
	15130	FIX	12410					•					
	15900	FIXI		16140			-						
	16140	FIX2		15210									
	15160	FLOAT	12350										
	03800	FMTSP	02290	11000									
	15190	FOF		11020				 -					
	17420	FRECK	17240		02/20	02010	03030	02050	02200	02250	02400	02420	
	02310	FSCAN		02390	02430	02860	03020	03050	03280	03350	03400	03430	
	15700		03780	00000	11170	112/0	11/20	11//0	115/0	11020			
	15780	FSTSW	03920	08320	11170	11260	11420	11460	11560	11830			
	16020	FXA											
	16060	FXD											
	16070	FXDR	10000										
	15510	FXEXP	12330		· · · · · · · · · · · · · · · · · · ·								
	16040	FXM											
_	16030	FXS											
	07705	F1	09230										
	05750	GETNO		05570	05690	05830							
	06360	GGG	04970										
	14270	GCER		14210	14240								
	10320	GORE		10290									
	04940	GOTO	01300										
	03460	HCLL	02520										
	03670	HCLL1		03610			·						
	1573C	HTYPE	03530				•						
	03890	<u>IF</u>		09890									
	04050	IFSS	04010						1.070				
	16620	IMAGE		06760	14200	14230	14240	14250	14270				
	01740	INCHK	01500										
	00020	INITL	07760		0/210	0/250	0/270	04200	04440	0/520	04540	04570	
	1214C	INST1									06560 11110		
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			15200	15220	15270	15200	1520E	15210	15210	15220	15090	12170	
	12170	TAICTO									01980	02110	
	12170	INST2									12240		
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	0480C	KAY	04720		06260	04200	04200	05020	05000	05200	05330		
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	14000	LACT		13970		17/00							
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		1040	OOGEO	ハフビノハ	1 / / / E /	1 4040							
	16590	LODER		07540			17440						
		LOAD LODER LOOP		05630			17640			·	:		

16350	LROUT	07740	
16530	LSTM	07690	
02190	LSUBS	02180 07470 07550	
15710	LTPAR	02420	U
08050	MOON3	07980	
07590	MCON7	07410 07660 17380	
17400	NO	17060 17070 17080 17090 17110 17280	
10590	NOMB	10080 10250 10410 10540 10550	
09310	NUMB	09410	
09370	NUMB1	09140 09180 09250 09350 09360 09390 09430	
09560	NUMB 2	09430 09460 09530 09540 09550 09570	
09480	NUMB3	09240 09580	
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10835	OMM1	00020 03910 10830 10880 10900 10920 11600 11650 11670 11690	
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·		13160 13240 13260 13280 14360	
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		04690 04820 04830 04840 04970 04990 05360 05370 05480 05490)
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		13580 13600 13610 13610 13620 13660 13700 13710 13720 13720	
		13730 13730 13740 13740 13760 13770 13780 13790 13800 13810	
		13810 13930 13950 13960 13960 17360	
16540	OVERL	00130	
06390	PAUSE	01620	
10670	PETA	10150	
16640	PHI	00400 00780 00790 00820 00840 00900 00900 00970 00990 01000	
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09750	PLUS	C3610 09620 09660 09680 09710 09720 09720 09730	
01700	PRINT	01610	
02990	PUNCT	02480 03380	
13950	PUTTD	13900 13980 14030	
13850	PUTX	04410 04850 05000 05380 05500 05610 05730 06180 06670 13410	1
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12220	DUTT		٦
13330	PUT1	04240 04240 06600 06600 11940 11940 13030 13030 14570 14570 14610 14610 14760 14760 15050 15050 15250 15250 15420 15420	'
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13360	PUT2	01970 01970 02140 02140 04260 04260 13050 13050 13330 13340	<u>, </u>
		13360 14770 14770 15260 15260 15290 15290	
10110	QUERY	10300 10380 10650	
15660	RACD	01840	
15650	RATY	01870	
01840	RDCD	01760	
03320	RPFMT		
	RPT1	03320	
03390	RPT2	03390	
03370		03080	
03370 15720	RTPAR		
03370 15720 16080	RTPAR RVSGN	16180 16180	
03370 15720	RVSGN S	16180 16180 11180 11480 12130 13200 13300 14380	·
03370 15720 16080	RVSGN	16180 16180 11180 11480 12130 13200 13300 14380 09010 09050 09860 09870	
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0073C	SLCT	00680	06190	***************************************							
07930	SMCNT	06030	00090	00760	01930	04690	04700	04780	04800	04890	04990
						05490					
		07900	08030	08180	03200	08220	08260	08350	10010	10460	10640
07940	SMNGT	07890									
07780	SMTLU	06800	08880	09120	09220	09810	09330	13090			
08100	SMTST	07870	07940	09940	09970						
11730	SS	10930	11440								
11150	SSA	10870	11380								
1095C	SSB	10890									
15250	SSBCD	15170	15330								,
11650	SSC	11620	13180			***	· - · · · · · · · · · · · · · · · · · ·				
12090	SSCA	11660									
11600	SSCAL	11286									
12000	SSCB	11680									
11420	SS001	11230									
11770	S 'S 1	11300	11510								
11810	SS2	<u> 11540</u>									
11500	SS3	11320	13230								
11410	<u>\$\$4</u>	11250									
11560	SS5	11340	11980	,							
11830	<u>SS6</u>	11360									
06450	STOP	01470									
14090	SUBI	13370									
10675	SUBN		10320	10330	10340						
15700	SWC	02180						······································			
02470	SWLP		02410		0.2020	02020	02040	02010	00000	02240	02450
16660	SYM					02930					
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14810	TEMP					15190		13010			
04170	TEN	11720	14200	141411	14100	LULIO	1)) (0				
16090	TEFAC		12200	14590	15030						
04410	THAT	04140	12200	11270	1000						
02650	TIER		02590	02610				i			
17660	TOP	10350		02.010							
15350	TRACE		01562	07687			***************************************				
15610	TRACX	15480	01702	01051							
02870	TRANS		02420	02450	02530	02690	02800	02810	02830	02840	02850
525.5						03080					
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17100	TRY	17290			"			•			
15210	TWAGS	15130	15160								
00340	TYST	00385									
07190	VAR		07130	07310	79. 70. 1.2.2.	***************************************					
09510	VARBR	09470			•						
15670	WACD	01670		,							
07100	WADDR		06990	07050	07190	07200	<u>072</u> 30				
15690	WATY	01710									
1000	WIDTH	02300	02940	03370							
03450	1 1911 1915			07040							
	WNUMB	00900	00,00								
03450	XTYPE XTYPE	03600									
03450 07140 15740 10785							· · · · · · · · · · · · · · · · · · ·	 			
03450 07140 15740	XTYPE ZERO9 ZOT	03600 00150 11090	09026	15360	15390						
03450 07140 15740 10785	XTYPE ZERO9	03600 00150	09026	15360	15390						

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16600	BUFBAS		06820	06830	06840	06850	07430	07520	07530	13900	13950	-
10200	COLUCT	14030	10230	10540								
10390	COLECT				14670	14700	14000	14020	14040	15090	15000	
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06510	CONTRL		06460	06470								
08530	DIMONT		08390		08650							
15800	DMSWCH				08354	08550				4		
06230	DORCRD	05960	03000	00000		00330						
15820	DOSWCH	00660	05950	•								
04340	ELEVEN		04150	04400								
05530	ENDPRO	01554	01120	01,00								
10790	ERRMSS		10750							************		
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05690	EXPROC	01574	0/100	57.00							· · · · · · · · · · · · · · · · · · ·	
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03120	FINISH	03090	0,0100									
15810	FLAGSW		10680	11410	11430	11530	12480	12620	12670	12730	12930	
1010	7 EROSII	12990	14330	14410	14890	14980	15020	15100				
09430	FLNUMB	09320	1.330						•			-
15910	FLCAT1		16160									
16160	FLOAT2	15160						,				
06980	FLPCON	06940							······································	*****		
02200	FORMAT	00950										
00740	FRMAT1	00910		····								
00840	FRMAT2		00770	00830	00860	00880	00890					- 4
15860	FRMSCT	00940							,			•
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06280	GOTORC	05040							,			
03640	HCONT1	03560				·						
03710	HCONT2	03540	03670	,	,						•	
03700	HCONT3	03760										
03750	HCONT4		03710			1						
04450	IFRCFL	04280			J	· · · · · · · · · · · · · · · · · · ·						
04500	IFRCFX	04320										
04560	IFSSRC	04050										
15830	IFSWCH			09880	11620							
07685	INCREM	01020						· · · · · · · · · · · · · · · · · · ·	-			
02180	IDINST	01980				,						
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10720	NOSPCE		079 50									
07070	NOTACC	07010										
07010	NOTCON	06930		00070	00440	00/70		· · · · · · · · · · · · · · · · · · ·				
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01600	OUTCHK	01490				·		***	· · · · · · · · · · · · · · · · · · ·			
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14330	PUTOMG		13060		13250	13270	13200	14420				
14350 14350	PUTOME				13140			* 4460				_
14370	FUIUMN	10000	12100	IZIIO	13170	13170						

13890	PUTPHI				13860	13870	13990	14000	14070		
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15680	WATYSC	01770	0.010	5.510				0			
02920			03520	03590							
05560	XETURN				05560	05620					
<u> </u>	ALTONI	<u> </u>	0000	0,0,70	0000	UJULU					
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LCCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND	REMARKS	S PAGE	1 ()
			•	00	000	** PD(FOR	TRAN PROCE	ESSOF	R CLT2	10/63#	
00402					010			402‡				
00402	16	11453	000-0		020	INITL	TEM	GMM1,0,10) ‡			
00414		08357			030		TEM	SMCNT, 999		,		
00426		16065			040		TFM	L	,66	500#		
00438		16523			050		TF	LCAD,L#				
00450	15	00459	00000	0.0	060		TDM	SKPPCH, 0	ŧ			
00459				00	070	SKPPCH	DS	, #-2±				
00462	16	11317	000-1	CO	080	BEGIN	TEM	SUBN, 1, 10	+ C			
00474	24	16065	08357	CO	090		С	L,SMCNT	‡			
CC486	47	00534	01100	00	100		BNH	*848*				•
00498	34	00000	00102		110		RCTY	#				
00510	39	16493	00100	00	13C		WATY	OVERL#				
00522	15	00459	00001		140		TDM	SKPPCH,1	,11#			
00534		00702			150		TF	IFSWCH, Zi	ER09-	-2‡		
00546		00694			160		BNC4	BA‡	_			
-00558		17173			170			CHI#				
00570		00641			180		TEM	*&71,CHI		‡		
00582		00680			190		TF	*898,*85				
00594		00641			200		SM	*847,2,1				
00606		00641			210		CM	*835,CHI	<u> </u>			
00618		00462			220	- "	BL	BEGIN#				
00630		00470			230		TF	BEGIN&8#				
00642		00674			240		BD	* &32		EGINE8‡		
00654		00674			250		BD	¥820	, B1	EGIN&7#		
0.0666	49	00582	00000		260		В	* -84 				
00674					270			* -3 ‡				
00674	.16	00000			280		TFM	_	, ‡			
00685		2			285		DC	2	•		a,**	
98900		00730	00000		290		В	#436#				
00694					300			* −3 ‡				
00694		00000			310	BA	RCTY					
00706		17173	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		320			CHI#				
00718		00694			330		BC4	BA#				
00730		17171			331		TFM	CHI-2	,		,8‡	
00742		17167			332		TD	CHI-6	, , L			
00754		17165			333		TD	CHI-8		-1#		
00766		17163			334		TD.	CHI-10		-2‡ -2+		
00778			16062		335		TD .	CHI-12	9 L.	-3‡ -4+		
00790		17159			336		TU BC2	CHI-14 *&36‡	, L	-4‡		
00802		00838	00459		337 338		BD	*&30 1 *&24		KPPCH#		
00814		17157						*624 CHI-16‡	7.3	NEFUNT		
00826		00886			339 340	TYST	BC1	BRC+				
00838			00100		350	:131	RCTY					
00850		17159			380	-		CHI-14#				
00862 00874			00006		385		TDM	TYST&1	,6	±		
00886		00894			390	BRC	B	±83*	, 0			
00894		00034	00000		395	DIVE		*-3 +				
00894		10704	J6694		400		TEM	PUTETBE6	PHT	£12±		
00906		00938			510		BD	*832,CHI			•	
00918			17174		5.20		TR	CHI-1,CH				
00930		00906			530		В	*-24±	1			
00938		00700	00000		540	·		*-3‡				
00938		17173	000M3		550		CM	CHI,43,1	0#			

	LCCTN	СР	P/L	0	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	S P/	\GE_	2
	00950	47	C1010	01200	00	560		BNE	*860‡			
	00962	24	00985	17175	00	570		С	*&23,CHI&2#			****
	00974	47	01010	012-0		580	<u> </u>	BNE	*836,0,10			
	00386		00985		0.0	590		С	*-1,CHI&4=			
	00998		00462			600 -		BE	BEGIN#			
	01010		17173			610		CM	CHI,70,10‡			
	01022		01398			620		BL	BLANKS&12#			
	01034		09178			630		BTM	CFXN, #812, 7#			
	01046		01068			640		TF	*622,SMTLU1610#			
	01058		01106			650		BNF	*648,4=			
	01070		C0701			660		TDM	DOSWCH,7,11#			
	01082		01104			670		TF	*822,SMTLU1810*			
	01094		01153			680		TF TF	SLOT,4# *&17,SMTLU1&10#			
	01106		01123 00004			690 700		TF	4,L‡			
	01118		01147			710		TF	*617,SMTLU1610∜			
	01130		00005			720		SF	5 ‡			
	01153	52	00003	00000		730	SLOT	DS	,**			
	01154	16	01264	-0089		740	FRMAT1		FRMAT2&6,89#			
	01166		16220			750	INTAIL	TF	BRINST&6,L‡			
	01178		16071			760		TF	LODER,SMCNT+			
	01190		01276			770		TFM	FRMAT2&18,88#			
	01202		16681			780		TR	PHI-1,CHI-1+			
	01214		01234			790		BNR	*&20,PHI*			. ~
	01226		01386			800		В	BLANKS=			
	01234				00	810		DORG	+−3+	· · · · · · · · · · · · · · · · · · ·		
	01234		16682			820		CM	PHI,,10#			
	01246		01330			830		BE	FRMAT2&72#			
	01258		-0000			840	FRMAT2		,PHI,2#			
	01270	33	-0000	00000		850		CF	,,2‡			
_	01279		2			852		DC	2 ,37	, #-2=	ļŧ 	
	01281		2			854	AVCID	DC	2	a, * ‡		
	01282		01264			860		CM	FRMAT2&6,99‡			
	01294		01350			870		BE	*856#			
	01306		01264			880		AM	FRMAT286,2,10#			
	01318		01276			890		AM	FRMAT2&18,2,10#			
_	01330		16681			900		TR	PHI-1,PHIE1+			
	01342	49	01214	00000		910		Bonc	FRMAT1&60# #-3#			
_	01350	22	00000	00000		920 930		SF	88‡			
	01350 01362		00088 00099			940		C	99,FRMSCT&10#			
_	01374			01200		950		BE	FORMAT#			
	01386		14750			960	BLANKS	BT	BGO, BGO-1+			
	01398		16681			970	DEFINIS	TR	PHI-1,CHI-1#			
	01410		01661			980		TF	BLNK1811, ELEVEN811+			
_	01422		16682			990		CM.	PHI,,10#			
	01434		16681			000		TR	PHI-1,PHI&1#			
	01446		01650			010		BE.	BLNK1#			
	01458		01661			020		Α	BLNK1&11, INCREM#			•
_	01470		01422			030	BLNK2	BNR	#-48,PHI#			
	01482		01500		01	040		TF ·	*&18,BLNK1&6#			
_		31	00000	01278	01	050		TR	,AVOID-3‡			
	01494											
	01506		01514			052		В	±8 3 *			
_		49		00000	01	052 054 060	SDECOD	DORG	*68‡ *-3‡ PHI61,CHI-1‡	·		

	3	PAGE	AND REMARKS	OPERANDS ANI	MNEM	LABEL	PG LN	Q	P P/L	LOCTN
	-		11	PHI-1,PHI&1:	TR		01 070	16683	16681	01526
				PHI,33,10#	CM		01 080		4 16682	01538
:				ISITF-12#	BNE		01 090		7 01670	01550
			11#	PHI-1,PHI&1:	2 TR	STDCD2	01 100		16681	01562
		· · · · · · · · · · · · · · · · · · ·)4‡	#820,PHI&04	BNR	·	01 110		5 01594	01574
:				ASCAN#	В		01 120	00000	9 11444	01586
				-3			01 130	00044	1	01594
				PHI,24,10# ASCAN#	CM		01 140		4 16682	01594
				PHI,23,10#	BE CM		01 150 01 160		6 11444	01606 01618
			•	STDCD2#	BNE		01 170		7 01562	01630
				DO#	В		01 180		9 05282	01642
				+−3 ‡	DORG		01 190			01650
1			1,2#	CHI-1,CHI&1	TR	BLNK1	01 200	17174	31 J7172	01650
<u> </u>				BLNK2‡	В	١	01 210	00000	9 01470	01662
	•			*-3 			01 220			01670
		: 		SDECOD&12,PI	BNR		01 230		5 01526	01670
			;	CHI,46,10#		ISITE	01 240		14 17173	01682
			\ O.A	#624# CBBCB 7170 (BNE	· · · · · · · · · · · · · · · · · · ·	01 250		7 01718	01694
				ERROR,7170,0 CHI,49,10#	BTM CM		01 260 01 270		17 11356 14 17173	01706 01718
			•	IF#	BE		01 280		46 04584	01716
				CHI,47,10#	CM		01 290		14 17173	01742
			,	GOTO#	BE		01 300		6 05706	01754
1				CHI,44,10#	CM		01 310		14 17173	01766
				DIM#	BE		01 320		46 04520	01778
			* •	CHI,42,10#	CM		01 330	000M2	14 17173	01790
		-		* &56 	BNE		01 332		47 01858	01802
	: 	10#	,57		CM		01 334		14 17183	01814
1				BEGPRO#	BE		01 336		6 06134	01826
			,4‡		TDM		01 338		15 15921	01838
:				BEGIN+ +-3+	В		01 340	00000	49 00462	01850
			· · · · · · · · · · · · · · · · · · ·	CHI,43,10#	CM		01 342 01 350	000M3	14 17173	01858 01858
i				* &56 ‡	BNE		01 360		47 01926	01870
		10#	,56		CM		01 370		14 17181	01882
:				CONTIN#	BL		01 380		47 06724	01894
		***************************************		COMM#	BE	·····	01 390		46 04552	01906
<u> </u>				CONTRL#	В		01 400		49 07200	01918
: .				±− 3‡			01 410			01926
		·	<u> </u>	CHI,59,10#	CM		01 420		14 17173	01926
				*&36‡	BNE		01 430		47 01974	01938
			10#	CHI&4,63,10	CM		01 440		14 17177	01950
	,			XETURN‡ CHI,62,10‡	BE CM		01 450 01 460		46 06354 14 17173	01962 01974
				STOP#	BE		01 470		46 07160	01974
			ŧ	CHI,57,10#	CM		01 480		14 17173	01998
				OUTCHK#	BE		01 490		46 02210	02010
				INCHK#	ВН		01 500		46 02346	02022
			ŧ	CHI,41,10#	CM		01 510	000M1	14 17173	02034
				ACCEPT#	BE		01 520		46 02402	02046
			‡ '	CHI,45,10#	CM		01 530		14 17173	02058
		101		ER1#	BNE		01 540		47 11576	02070
_		,10‡	,57		CM		01 550		14 17179	02082
		· · · · · · · · · · · · · · · · · · ·		ENDPRO#	BE		01 554	01200	46 06334	02094

LCCT	N C	P	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	4
0210	6 4	7	02138	01300		558		BL	*632‡		
C211	8 1	5	15921	00001	01	562		TDM	TRACE&1 ,1#		
0213		9_	00462	00000		566		В	BEGIN#		
0213						570			*- 3 +		
0213			06494			574		BNR	EXPROC ,CHI&8#		
0215		9	07324	00000		580		В	END#		
0215						590			*-3 ‡		
0215			02178			591	CONIO	BD	*620 ,CHI&10‡		
0217		9_	11576	00000		592		B	ER1‡		
0217			01510	2400		593			#-3‡		
0217			01512			594		TFM	SDECOD-2 ,102888#		
0219				17184		595		TR	CHI-1 ,CHI&11+		
0220 0221		9_	01398	00000		596 597		B	BLANKS&12+ #-3+		
		1.	17175	OOONO		600	OUTCHK		CHI&2,59,10#	`	
0221		4_	17175	01200		610	DUICHK	BE	PRINT#	· · · · · · · · · · · · · · · · · · ·	
0223			07140			620		BNH	PAUSE#		
0224				17182		630	· · · · · · · · · · · · · · · · · · ·	TR	CHI-1,CHI&9#		
0225			17173			640		CM	CHI,63,10#	*	,
0227			02294			650		BNE	*624*		
0228				17180		660		TR	CHI-1,CHI&7+		
0229				-2882		670		TFM	INST286,WACD*		
0230				00000		680		В	101#		
0231			02402	00000		690			#-3 ‡		
0231		1	17172	17182		700	PRINT	TR	CHI-1,CHI&9+		
0232				-2954		710			INST286, WATY#		
0233				00000		720		В	101#		
0234			UL TUE	00000		730	,		*-3‡		
0234		4	17173	00003		740	INCHK	CM	CHI,63,10‡		
0235				17180		750	2.1.01.1.	TR	CHI-1,CHI&7+		
0237				01200		760		BNE	RDCD#		
0238				-2918		770		TFM	INST286 ,WATYSC#	· · · · · · · · · · · · · · · · · · ·	
0239			02482			780		В	101#		
0240		_	<u> </u>			790			* −3 ‡		
0240		1	17172	17184		800	ACCEPT		CHI-1,CHI&11+		
0241				00003		810		CM	CHI,63,10#		
0242				01200		820		BNE	*&44 ‡		
0243				17180		830		TR	CHI-1,CHI&7#		
0245						840	RDCD	TFM			
0246				00000		850		В	I01‡		
0247						860		DORG	*-3		
0247		6	12846	-2834		870		TFM	INST2&6, RATY#		
0248	2 1	6	12841	000K7	01	880	101	TFM	INST2&1,27,10#		
0249	4 1	4	17173	00009	01	890		CM	CHI,69,10#		
0250				01100		900		ВН	* &24 ‡		
0251				OP173		910		BTM	ERROR,7173,8‡		-
0253				-2542		920		BTM	CFXN, #612 +		<u> </u>
0254				08356		930		TF	#822,SMCNT-1#		
0255				-0006		940		TFM	INST2811,6#		
0256		6	12855	0-000		950		TFM.	INST2815,,8‡		
0257			1			960		DC	1,0,**		
0257				13925		970		BT	PUT2,PUT2-1+		
0259				02812		980		TF	INST286, IDINST86#		
0260				17175		990	102	BNR	102&20,CH1&2#		
0261	4 4	9	06724	00000	02	000		В	TESTDO#		

LOCI	ſN_	<u>OP</u>	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 5
0262	2 2				0.3	010		DODE	*-3‡
0262		1.4	17173	000K3		020		CM	CHI,23,10#
0263			17170			030		TR	CHI-3,CHI-1#
0264			02602			040		BNE	102‡
026			02702			050		BNR	#844 ,CHI82#
			00892			060		TFM	BRCG6 ,CONIO#
0267 0268			00546			064		B	BEGIN&84#
0269		49	00046	00000		070			*-3‡
		1 2	01512	. 1514		075		TEM	SDECOD-2 ,SDECOD+
0269			01512 00698			080		TDM	SBSWCH#
027			09404			090		BTM	CSORN, # &12 #
027			02749			100	···	TF	*&23,PUTETB&6#
027			12847			110		TR	INST287#
027			02774			120		BNR	#824,CHI&2#
						130		TFM	INST266,COMPLT#
027			12846 13926			140		BT	PUT2, PUT2-1#
			10794			150		SM	PUTETB&6,9‡
027							·····	B	102‡
027		49	02602	00000		160			
028		1.7	02020	2010		170 180	IOINST		*-3* SWC,LSUBS-1,07*
028		JI	03938	-2818					- · · • -
028		2.1	17	1//01		190	LSUBS FORMAT	DAC	17,LOAD SUBROUTINESa+
028			17172			200 210	FURMAI	TR	CHI-1,PHI-1‡
028			02881					TF	*817,SMTLU1810*
028			00004			220		AM	4,6,10‡
028			02905			230		TF	*&17,SMTLU1&10#
029			0.0005			240		MCT	5,2,11‡
029			16220			250	·	AM	BRINST&6,6‡
029			14762			260		BT	BG0&12,BG0&11‡
029			03145			270		TEM	SWLP&1,17,10#
029			03630			280		TEM	TRANS&18,PHI&6+ PHI-3,FMTSP-10+
029			16679			290		TR	
029			03575			300	ECCAN	TFM	
029			17172			310	FSCAN	TR	CHI-1, CHI&1 #
029			03028			320		BNR	*&32,CHI+
030			00892			330		TFM	BRC&6 ,CONFMT+
030		49	00546	00000		340		В	BEGINE84#
030				55043		350	· · · · · · · · · · · · · · · · · · ·		*-3‡
030			17173			360		CM	CHI,23,10#
030			02984			370		BE	FSCAN+
030			17173			380		CM.	CHI,,10‡
030				01200		390		BE	FSCAN+
030				000K4		400		CM	CHI,24,10#
030				01200		410		BNE	SWLP+
031				-2726		420		TEM	TRANS823, LTPAR#
031				-2984		430		TEM	TRNSBR86,FSCAN‡
031			03145			440		TFM	SWLP61,41,10+
031		49	03612	00000		450	*	B	TRANS#
						460	C114 5		#-3‡ EDDOD 7171 0±
031			4	00.	0.7	470	SWLP	BTM	ERROR, 7171, 8‡
031 031	44		11356						
031 031 031	44_ 56	47	03742	01100	02	480		BNH	PUNCT#
031 031 031 031	44 56 68	47 14	03742 17173	01100 000M0	02 02	490		CM	CHI,40,10#
031 031 031 031 031	44 56 68 80	47 14 47	03742 17173 04046	01100 000M0 01100	02 02 02	490 500	· · · · · · · · · · · · · · · · · · ·	CM BNH	CHI,40,10‡ CHCHI&12‡
031 031 031 031 031 031	44 56 68 80 92	47 14 47 14	03742 17173 04046 17173	01100 000M0 01100 00009	02 02 02 02	490 500 510		CM BNH CM	CHI,40,10‡ CHCHI&12‡ CHI,69,10‡
031 031 031 031 031	44 56 68 80 92 04	47 14 47 14 46	03742 17173 04046 17173 04182	01100 000M0 01100	02 02 02 02 02	490 500		CM BNH	CHI,40,10‡ CHCHI&12‡

)	LOCTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	6
	03228	16	03563	00-00	0.2	540		TEM	EFIND,,9‡		
	03240		17173			550		CM	CHI ,41	,10±	
	03252		03360			560		BE	TIER‡	,	
	03264		17173			570		CM ·	CHI,44,10#		
	03276		04046			580		BL	CHCHI&12#		
	03288		03360			590		BÉ	TIER#		
	03300		17173			600		CM	CHI,49,10#		
	03312		03360			610		BE	TIER#		
			03563			620		TEM	EFIND,,10#		
	03324 03336		17173			630		CM	CHI,46,10‡		
	03348		04046			640		ВН	CHCHI&12#		
-	03360		17172			650	TIER	TR	CHI-1,CHIE1+		
						660	TILK	BTM	CFXN,00,10#		
	03372		09178 03658			670		BTM	WIDTST,,10#		
	03384							TF	RPFMT&21 ,SYM#	•	
	03396		04079			680		TFM	TRANS&23,00,10#		
	03408		03635			690					
	03420		03552			700		BNF	PRETRN, EFIND-1#		
	03432		04034			710		BT	CHCHI ,CHCHI-1#		
	03444		17173			720		CM	CHI,03,10‡		
	03456		04046			730		BNE	CHCHI&12#		
	03468		17172			740		TR	CHI-1,CHIE1+		
	03480		04034			750		BT	CHCHI ,CHCHI-1#		
	03492		17173			760		CM	CHI,69,10‡		
	03504		04046			770		BNH	CHCHI&12#		
	03516		09178			780		BTM	CFXN,,10#	·····	
	03528		17142			790		SF	SYM-1+		
	03540		03635			800		TF	TRANS&23,SYM#		
	03552	33	03632	00000		810	PRETRN		TRANS&20#		
	03563		2			820	EFIND	DS	2,**		
	03564		03634			830		CF	TRANS&22#		
	03576		03635			840		SF	TRANS&23#		
	03588		03631			850		SF	TRANS&19#		
	03600		03654			860		TFM	TRNSBR&6,FSCAN&12+		
	03612		03630			870	TRANS	ΑM	*&18,5,1C#		
	03624		16688			88C	·····	TFM	PHI&6#		
	03636		16681			890		A	PHI-1,TRANS&11#		
	03648	49	00000	00000		900	TRNSBR		<u> </u>		
	03658					910			#-1 #		
	03658		17142				WIDTST				
	03670		03633			930		TF	TRANS&21,SYM#		
	03682		03575			940		S	WIDTH,SYM#		
	036 94		03730			950		BN	* &36 ‡		
	03706	14	17143	000-0	02	960		CM	SYM,,10#		
	03718	46	09378	01100		970		вн	CSORN-26‡		
_	03730		11356			980		BTM	ERROR,7172,8‡		
	03742		17173			990	PUNCT	C;∗	CHI,21,10#		
_	03754		03798			000		BNE	* 844 		
	03766		03635			010		TEM	TRANS&23, SLASH#		
	03778		03654			020		TFM	TRNSBR&6,FSCAN-12#		
	C379C		03612			030		В	TRANS#		
	03798					040			#-3‡		
_	03798	46	02984	01100		050		вн	FSCAN#		
	03810			000-4		060		CM	CHI,04,10#		
	C3822		04046			070		BNE	CHCHIE12+		
	03834			-3574		080		TEM	TRANS&23,RTPAR#		
	0,000										

	7	PAGE	AND REMARKS	OPERANDS A	MNEM	LABEL	LN	PG	Q	P/L	CP	LCCTN	_
			FINISH±	TRNSBR&6,	TFM		090	. 03	-3866	03654	1.6	.03846	
		-	11113119	TRANS#	В		100			03612		03858	
					DORG		110		0000	02012		03866	
	·			*&30,PHI+		FINISH	120		16682	03896		03866	
				*&18,PHI-	A	, 1111311	130			03896		03878	
				,BRINSTE	TR		140			00000		03890	_
				*&23,PHI-	TD		150			03925		03902	
		· · · · · · · · · · · · · · · · · · ·		*824,210	BD		160			03938		03914	
*				PHI-1,1,1	AM		170			16681		03926	
				PH186,L#	TF		180			16688		03938	-
		Annual Section 1995	-1#	PHI&6,PHI-	A		190			16688		03950	
				PUTPHI, PH	BT		200			14486		03962	
			,BRC&8#	BRC&6	TFM		210			00892		03974	
			70110001	BEGIN#	В		220			00462		03986	_
					DORG		230		00000	00102		03594	
			CHIE10	∗ €20		CONFMT	240		17183	04014		03994	
				CHCH1612#	В	CONTIN	250		00000			04006.	
;				*-3#			260		00000	04040		04014	
			,CHI&11#	CHI-1	TR		270		17184	17172		04014	
		,5‡	7	FSCANE12	В		280			029R6		04026	
3		727	7		DORG		290		00000	02 380		04026	
			,CHI‡	CSORN-26	BNR	CHCHI	300		17172	09378		04034	
		,8‡	,7171	ERROR	BTM	CHICHI	310			11356		04046	
 i ·		701	,RPT1#	TRANS-1	TFM	RPFMT	320			03611		04058	_
			THE LA	SYM-1#	SF	KEIBI	330			17142		04070	
			,SYM#	*-1	TF		340			04081		04082	_
				FSCAN&12#	В		350			02996		04094	
					DORG		360		00000	02 9 9 0		04102	
			,RPFMT&21#	WIDTH	S	RPT2	370		04079	03575		04102	
				PUNCT-12#	BN	NF 12	380			03730		04114	
1			,RPT2#	TRNSBR&6	TFM	RPT1	390			03654		04126	
			FSCAN&12+	TRANS-1	TFM		400			03611		04138	
		, 10‡	,1	RPFMT&23	SM		410			04081		04150	
		,	,	TRANS#	BH		420			03612		04162	_
				FSCAN&12+	В		430			02996		04174	
					DORG		440		00000	02770		04182	_
. !			±	,EFIND&12	DS	WIDTH	450					03575	
				CFXN,,10#	BTM	HOLL	460		000-0	09178		04182	
:			,CHCHI-1#	CHCHI	BT		470			04034		04194	
				CHI, 67, 10	CM		480			17173		04206	_
				*&104#	BE		490			04322		04218	
			±	CHI,48,10	CM		500			17173		04230	_
1				RPFMT#	BNE		510			04058		04242	
		,10 	•	WIDTST	BTM		520			03658		04254	
		,101	•	TRANS&23,	TFM		530			03635		04266	
	·			HOLL1611,	TFM		540			04413		04278	-
				CHI-1,CHI	TR		550			17172		04290	
				TRNSBR&6,	TFM		560			03654		04302	-
				TRANS#	В		570			03612		04302	
				#-3‡			580			02012		04322	-
		,10#		WIDTST	BTM		590		000-0	03658		04322	
		7107	,XTYPE#	TRANS&23	TEM		600		-3654			04334	
		E .	HCONT4624	HOLL 1611	TEM		610		-4490			04346	
			THOUTTER	*-56 ‡	В	· · · · · · · · · · · · · · · · · · ·	620			04302		04358	-
				-3			630		00000	07302		04366	
					JUNG		<u> </u>					07.700	-

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)	LCCTN	CP	P/L	Ç	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	S PAGE	88
	04366	16	03623	000-2	03	640	HCONT1		TRANS&11,2,10#		
	04378	32	17142	C0000	03	650		SF	SYM-1#		
	04390	26	03635	17143	03	660		TF	TRANS&23,SYM#		
	04402	16	03654	-4434	03	670	HOLL1	TFM	TRNSBR&6,HCONT2+		
	04414	49	03612	00000	03	680		В	TRANS#		•
	04422					690		DORG	*-3		
	04422	31	17172	17174	03	700	HCONT3		CHI-1,CHIE1#		
	04434		03654		03	710	HCONT2	TFM	TRNSBR&6, HCONT4#		
	04446	26	03635	17173	03	720		TF	TRANS&23,CHI#		
	04458		03612			730		В	TRANS#		
	04466					740		DORG			**
	04466	12	17143	000-1		750	HCONT4	SM	SYM,1,10#		
	04478		04422			760		BP	HCONT3+		
	04490		03623			770		TFM	TRANS&11,5,10+		
	04502		02984			780		В	FSCAN+		
	04509		02 / 0 1			790		DORG		<u> </u>	
	04519		11			800	FMTSP	DC	11,74900000@#		
	04520	15	00699	00004		810	DIM	TDM			
	04532		17172			820	DIN	TR	CHI-1,CHI&17#		
	04554		09532			830		B	CS#		
		47	09032	00000							
	04552		17172	17104		840	COMM	DORG			<u>.</u>
	04552		17172			850	COMM	TR	_	114	•
	04564		00699			860		TDM	DMSWCH +4	,11‡	
	04576	49	09532	0.0000		870		В	CS#		
	04584					880		DORG			
	04584		17172			890	IF	TR	CHI-1,CHI&5#		
	04596		16902			900		TFM	PHI&220,49,10+		
	04608		11453			910		TFM	OMM1,49,10#		
	04620		00697			920		TDM	FSTSW,1#		,
	04632		00702			930		SF	IFSWCH+		
	04644	49	11456	00000		940		В	ASCAN&12#	· ·	
	04652					950		DORG	*-3+		
	04652		17142			960		CF	SYM-1#		
	04664		17140			970		CF	SYM-3#		
	04676	33_	17138	00000	03	980		CF	SYM-5#		
	04688	33	17136	00000	03	990		CF	SYM-7#		
	04700	24	17143	04745	04	000		C	SYM, SENSE&8+		
	04712		04756		04	010		BE	IFSS#		
	04724		11356			020	ER6	BTM	ERROR ,76	,8‡	
	04737		10	-		040	SENSE	DAC	10,SENSE#		
	04756	31	00000	05261		050	IFSS	TR	OUT , IFSSRC+		
	04768		17185			060		CM	CHI&12,69,10#		
	04780		04840			070		BNH	* 604		
	04792		00009			080		TD	OUT&9 ,CHI&12+		
	04804		17172			090		TR	CHI-1,CHI&15+		
	04816		17173			100		CM	CHI,69,1C+		<u> </u>
	04828		04852			110		ВН	#824 ‡		*
	04840		11356			120	ER7	BTM	ERROR ,77	,8‡	
	04852		C6020			130		TFM	KKE6 ,OUTE5#	,	
	04864		05151			140	·· ·	TFM	THAT 811,20,10#		
			05068					B	ELEVEN&12+		
	04876	49	מסטכט	00000		150					
	04884	٠,	04007	10704		160	TCN		#-3# #622 DUTETDO64		
	04884			10794		170	TEN	TF	*&23,PUTETB&6#	<u> </u>	
	04896		12831			180		TR	INST187#		
	04908	26	17830	16213	U 4	190		TF	INST1&6,TFFAC+		
179											

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	LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	9 🕔
	04920	31	12840	16254	04	200		TR	INST2,RV	INST#		
	04932		04952			210		BNF	#820, INS			
	04944	49	04964	00000	04	220		В	*820*			
	04952					230		DORG	*- 3 			
	04952	27	13906	13905	04	240		BT	PUT1, PUT	1-1#		
	04964		04988		04	250		BNF	*824, INS	T1&14#		
	04976	27	13926	13925	04	260		BT	PUT2, PUT	2-1#		
	04988		05032			270		BD	*844, INS	T1814#		
	05000	31	00000	05172	04	280		TR	OUT	, IFRCFL#		
	05012		0.0006		04	290		Α	OUT&6	,L‡		
	05024	49	05044	00000	04	300		В	* 820 			
	05032				04	310		DORG	*-3+			
	05032	31	00000	05216	04	320		TR	OUT	, IFRCFX+		
	05044		06020		04	330		TFM	KK&6	,OUT&41#		
	05056	31	J7172	17174	04	340	ELEVEN	TR	CHI-1,CH	181,2#		
	05068	17	06002	-508C	04	350		BTM	STATNO, *	£12‡		
	05080	14	06020	-0041	04	360		CM	KK&6	,OUT&41#		
	05092	47	05116	01200		370		BNE	* 824 			
	05104	16	06020	-0005	04	380		TEM	KK &6	,OUT&5#		
	C5116	11	06020	000J2	04	390		AF	KK&6,12,	10#		
	05128	45	05056	17175	04	400		BNR	ELEVEN, CI	HI&2‡		
	05140	17	14452	000M4	04	410	THAT	BTM	PUTX,44,	10‡		
	05152	16	05151	000M4	04	420		TFM	*-1,44,1	0#		
	05164	49	00462	00000	04	430		В	BEGIN#			
	05172				04	440		DORG	*-3*			
	05172	43	-0024	00053	04	450	IFRCFL	BD	24,FAC-7	,2‡		
	05184		cocoo		04	460		В	‡		•	
	05196		00000		04	470		BNF	,FAC+			
	05208		00000		04	480		В	‡			
	05216				04	490		DORG	*-3‡			
	05216	14	00060	0-000		500	IFRCFX	CM	FAC,,8#			
	05228		00000		0.4	510	•	BE	#			
	05240		00000		04	520		вн	‡			
	05252		00000		04	530		В	‡			
	05260				04	540		DORG	*-3			
	05260		1		04	550		DC	1,0+			
	05261		1		04	560	IFSSRC	DC	1,4#	·		
	05272		11			570		DC		C000000‡		
	05281		9			580		DC	9,4900			
	05282	31	17172	17176		590	DO	TR	CHI-1,CH	183‡		
	05294		09178		04	600		BTM	CFXN, #&1			
	05306		05323			610		TF	*&17,SMT	LU1810#		
	05318		00004		04	620		SM	4,36,10‡			
	05330		17173		04	630		CM	CHI,23,1	0#		
	05342		05366			640	-	BNE	*&24 ‡			
	05353		1			650		DC	1,2,**			
	05354	17	11356	0-078	04	660		BTM	ERROR,78			
	05366			-5378		670		BTM	CSORN, *E			
-	05378	<u>K6</u>	00011	05389	04	680		TF	0UT&11	,*811	•0=	
	05390			08357		690		TF	0 3TU 0	,SMCNT+		
	05402			08357		700		TF	DSADO ,S	MCNT+		
	05414			0-001		710		TFM.	DSADDE15			-
	05426			-5689		720	· /	TEM	KAYE6,DS			·
	05438			17174		730	ELL	TR	CHI-1,CH			1
	05450			CCOPO		740	•	C M	CHI,70,1		<u> </u>	
						-					/20	
											1110	

 						N		
 LOCTN	OP	P/L	- O O	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 10
 05462	46	05486	C1300	04	7 50		BNL	* &24 ‡
05474	17	09404	-5510	04	760		BTM	CSORN, *&36‡
05486	17	09178	000-0	04	770		BTM	CFXN••10‡
 05498	26	08357	17143	04	78C		TF	SMCNT, SYM#
05510	11	05528	-0005	04	790		AM	* 818,5 *
 05522		00000		04	800	KAY	TF	• SMCNT#
05534		05438		04	810		BNR	ELL,CHI&2‡
 05546		00011		04	820		TF	OUT&11 ,DSADO&5#
05558		05582			830		BNF	*824 ,OUT68‡
05570		C000C			840		TOM	OUT ,1 ,11‡
05582		14452		04	850		BTM	PUTX,12,10#
 05594		05694			860		TF	DSADO&5,L#
05606		05641			862		TF	*835 • EMM&6+
 05618		05641			864	· · · · · · · · · · · · · · · · · · ·	AM	*£23 ,19 ,10 ‡
05630		11338			866		BNR	NGSPCE#
 05642		00000			870	EMM	TR	, DSADO-4‡
05654		05648			880		AM	≈ -6,20‡
 05666		08357			890		TF	SMCNT, MEMCAP-1+
05678		00462			900		В	BEGIN#
 05685		00.02			910			; *-4 ‡
05689		00005	-0000		920	DSADO	DSA	0,0,0,0
 05694			-0000	<u> </u>	720	DUADO		
05699			-0000					
 05704			-0000					
05705		1	0000	04	930		DC	1,2‡
 05706	21	17172	17180		940	GOTO	TR	CHI-1,CHIE7#
05718		17173			950	9010	CM	CHI,24,10#
 05730		05798			960		BE	COMPUT#
05742		00000			970		TR	OUT •GGG+
 05754	$\frac{31}{17}$		-5766		980		BTM	CFXN, *&12*
05766		00005			990		TF	OUT&5 ,SMCNT-1+
 05778		14452			000		BTM	PUTX,8,10#
		00462			010		В	BEGIN‡
 05790	49	00462	00000					; *-3‡
05798	1,	0/000	1/752		020	COMPUT		
 05798		06020			030	COMPUT		KK&6,PHI&71‡
05810		16679			040		TR	PHI-3,GOTORC-3‡
 05822		00698			050		TDM	SBSWCH, 1#
05834		17172			060		TR	CHI-1,CHIE1#
		06002			070		BTM	
05858			000-4		080		AM	PHI -1,4,10‡
 05870			000-4		090		AM	KK&6,4,10‡
05882		05822			100		BD	CDMPUT&24,CHI-1#
 05894		16717			110		<u> </u>	PHI&35,L#
05906		16724			120		A	42&PHI,L#
 05918		16736			130		A	548PHI,L#
05930		17172			140		TR	CHI-1,CHI&3‡
 05942		09404			150	<u> </u>	BTM	CSORN, * & 12 +
05954		00698			160		TOM	SBSWCH, 0#
05966		16688			170		TF	PHI&6.SMCNT+
 05070		14486			180		BT	PUTPHI,PHI-1+
 05978		00442	OCOCC	05	190		В	BEGIN‡
 05978							C) T 14	0 = 14 1
	17	09178	-6014	05	200	STATNO		CFXN, * & 12 +
05990	17	09178		05 05	210	STATNO KK	TF	,SMCNT-1#
05990 06002	17 26	09178 00000	-6014	05 05 05				

LO	CTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	11	
. 06	050	26	06068	06001	05	240	,	TF	*&18,STAT	NO-1+			
	062		00000			250		В	#				
	069		-,-,-			260	4	DORG	*-4‡				,
	C70	26	06092	08276		270		TF	*622, SMTL	U1&10#			
	082		06102			280		BNF	*&20,4 *				
06	094	49	06050	00000	05	290		В	KK&36#		7		
06	102					300		DORG	*-3*				
06	102	26	06119	08276		310		TF	*&17,SMTL	.U1&10#			
	114		00005			320		TFM	5,90+				
	126	49	06050	00000		330		В	KK&36#				
	134					34C			#-3#		1		
	134		06566			350	BEGPRO		GETNO, *&1				
	146		00000			360		TR	OUT	,BEREC+			:
	158		00005			370		A	OUT&5	,SMCNT-1≠			
	170		14452		05	380		BTM	PUTX,16,1				
	182		06199			390		TF	*&17,SMTL	.U1&10#			
	194		00004			400		TF	4,L+				
	206		88000			410		TF	88, SMCNT				1
	218		16220			420		TF	BRINSTE6.				
	230		16216			430		CF	BRINSTE2				* .
	242	<u>31</u>	00089	16276		440		TR	89, CRAM-3				
06	254	31	00091	16214		450		TR	91,BRINST				
	266		00098			460		TR	98, CRAM-2				
06	278	27	14798	14797	05	470		BT	COMGO, COM	1GO-1#			i
06	290		00006			480		Α .	83TU	,L‡			
06	302	26	00010	08356		490		TF	013TU0	,SMCNT-1#			
	314		14452			500		BTM	PUTX,12,1	.0+			
06	326	49	00462	00000		510		В	BEGIN#				
	334					520			+ −3 +				
	334		06354			530	ENDPRO	SF	XETURN#				
	346	49	06366	00000		540		В	XETURN&12	2+	•		
	354					550			* -3 				
	354		06354			560	XETURN		XETURN#				
	366		06566			570		BTM	GETNO, #&				1
	378		00000			580	· · · · · · · · · · · · · · · · · · ·	TR	OUT	,BEREC&8‡		.,	
	390		06412			590	-	TF	*822,SMTI				
	402			00004		600		Α	0 3TU 0	,4‡			
06	414	17	14452	8-000	05	610		BTM	PUTX,8,10)‡			
	426		00462			620		BNF	BEGIN, XE				
	438		16071			630		TF	LODER, SMO				
	450		16071			640		SM	LODER, 10				
	462		16220			650		TF	BRINST&6				
	474			14749		660		BT	BGO.BGO-	L‡	·		
	486	49	00462	00000		670		В	BEGIN#				
	494					680			*-3*				
	494		06566			690	EXPROC		GETNO, *&				- 1
	506		00000			700		TR	OUT	+EXREC+			
	5518			08356		710		TF	OUT&5	,SMCNT-1+			
	5530		00011			720		A	OUT&11	,L#	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	542			000J2		730		ВТМ	PUTX,12,	LU‡			:
	5554			00000		740		<u>B</u>	TESTDO#		·		
	5566			17174		750	GETNO	TR	CHI-1,CH				
	5578			00009		760		CM	CHI,69,1	O#			· · · · · · · · · · · · · · · · · · ·
	590			01100		770		BNH	*-24‡	•			
06	6602	17	09178	-6614	<u>05</u>	780		BTM	CFXN, *&1	Z ‡			

	LCCTN	СР	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 12
	06614	26.	06655	08276		790		TF	#641,SMTLU1610‡
	06626		06660		05	800		TF	*&34, SMTLU1&10#
	06638	12	06655	000-1	05	810		SM	*617,1,10
	06650	26	00009	00009	05	820		TF	9,9‡
	06662	26	08660	06565	05	830		TF	#&18,GETNO-1#
	06674	49	98765	00000	05	840		В	98765‡
	06681				0.5	850		DORG	*-4 ‡
	06682	49	-0010	00000	05	860	BEREC	В	10,,25‡
_	06690				05	870		DORG	*-3*
	06690	49	-0000	00000	05	880		В	8,,26‡
	06698					890		DORG	
	06698	26	-000K	00001	05	900		TF	2,1,26‡
	06710		1			910		DC	1,0‡
	06711		1			920	EXREC	DC	1,1‡
	06717		6			930		DC	6,700002‡
	06723		6		05	940		DC	6,00012@#
	06724		03974			950	TESTDO		CONFMT-20 ,DOSWCH+
	06736	31	00000	C7031		960		TR	OUT ,DORCRD+
_	06748		05648		05	970		SM	EMM&6,20‡
	06760		06783			980		TF	#&23,EMM&6#
	06772		00040		05	990		TR	OUT&40#
	06784	26	06802	06783	06	000		TF	*£18,*-1‡
	06796	15	00000	00000	06	010		TDM	#
	06807		1		06	020		DC	1,0,**
	80860	11	06802	-0010	06	030		AM	*-6,10
	06820	26	06838	06802	06	040		TF	#818, #-18 #
*	06832	26	00000	16279	06	050		TF	,CRAM#
N. C.	06844	11	06838	-0010	06	060		AM	*-6,10 ‡
	06856	26	06874	C6838	06	070		TF	#£18, *- 18‡
	06868	26	00000	16279	06	080		TF	,CRAM#
	06880	26	00006	00044		090		TF	OUT&6 ,OUT&44#
	06892	26	00011	00059	06	100		TF	OUT&11 ,OUT&59#
	06904		00018			110		TF	OUT&18 ,OUT&44+
	06916	26	00023	00054	06	120		TF	OUT623 ,OUT654#
	06928	26	00030	00049	06	130		TF	OUT&30 ,OUT&49‡
	06940	44	06964	00007	06	140		BNF	* £24 ,0UT&7‡
	06952		00000			150		TOM	OUT ,2‡
	06964		06988			160		BNF	#&24 ,OUT&19#
	06976				06	170		TDM	OUT&12 ,2\$
	06988		14452			180		BTM	PUTX,36,10+
	07000		01153			190		AM	SLOT ,36,10#
	07012		06736			200		BNE	TESTD0&12‡
	07024	49	03974	00000		210		В	CONFMT-20‡
	07031					220			*-4 ‡
	07031		1			230	DORCRD		1,1*
	07042		11			240		DC	11,100000000000
_	07054		12			250		DC	12,140000000000
	07067		13			260		DC	13,470000001100@#
	07070		3			270		DC	3,68‡
	07071		1			280	GOTORC		1,1#
	07080		9			290	·	DC	9,300009000‡
	07082		2			300		DC	2,04‡
	07094		12		06	310		DC	12,320009500000‡
	07101		7		06	320		DC	7,1100099‡
	07106		5		06	330		DC	5,00067‡

								OPERANDS AND REMARKS PAGE 13
LCCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 13
07118		12			340		DC	12,260005900099‡
07130		12		06	350		DC	12,260006500000#
07131		1			360	GGG	DC	1,4#
07139		8			370		DC	8 ,90000000#
06724					380	CONTIN		,TESTCO#
07140		12825			390	PAUSE	TFM	INST161 ,48 ,10‡
07152	49	07284	00000		420		В	ENDX-32‡
07160					430			*-3
07160		17172			450	STGP	TR	CHI-1, CHIE7+
07172		12831			460		TF B	INST167, CONTRL-1 + CONTRL 624 +
07184 07192	49	07224	00000		470			#-3‡
07192	17	02452	-0000		490	•	BTM	CTOPCS 074
07200	<u> </u>	02432	-0000		500			\$10P\$K • • • • • • • • • • • • • • • • • • •
07200	21	17172	17186		510	CONTRL		CHI-1,CHI&13‡
07212		12825			520	CERTIL	TEM	INST161,34,10‡
07224		09178			550		ВТМ	CFXN,,104
07236		12835			560		TF	INST1E11,SYM#
07248		12832			570		CF	INST1&8‡
07260		07284		06	580		BNR	*824,CHI+
07272	16	12835	-0000	06	590		TEM	INST1811+
07284	31	12836	16275	06	595		TR	INST1&12 ,CRAM-4#
07296		13906			600		ВТ	PUT1,PUT1-1#
07308	49	06724	00000		610		В	TESTD0+
07316					620			*-3‡
0731 6	49	02562	00000		630	ENDX	В	ENDSR#
07323					640			*-4‡
07323	٠.	1			650	(54) B	DC	1,0#
07324		00000			660	END	TR	OUT ,ENDX‡
07336		14452			670		BIM	PUTX,8,10‡
07348		14686			680 690		TFM B	DUMP&54, # &20+ DUMP+
07360	49	14632	66000		700			#-3‡
<u>07368</u> 07368	1.6	14686	14522		710		TEM	DUMP&54, PUTPHI&36#
07380		07400			720		BNR	*&20, IMAGE\$
07392		07424			730		8	*£32‡
07400	7 7	UITET	00000		740			*-3‡
07400	43	07424	00459		750		BD	*&24,SKPPCH+
07412			CC4C0		760			IMAGE‡
07424			16065		770	· · · · · · · · · · · · · · · · · · ·	TF	BUFBAS&6,L‡
07436			COR99		780		TEM	SYM,999,9#
07448			-7468		790		TFM	CSDRN-1, * & 20 +
07460	49	08210	00000		800		В	SMTLU#
07468					810		DURG	
07468		16535			820		TF	BUFBASE11, SMCNT =
C7480			C8277		830		TF	BUFBAS&16,SMTLU1&11+
07492			16086		840		TR	BUFBAS&17, USEDFS #
07504			16508		850	BOTTO	TR	BUFBAS&67, MEMCAP-5+
07516			16513		875	PSTAB	TF	FINE11 ,FCTEND#
07528			000-1		885		AM TEH	SMCNT ,1 ,10#
07540			-8357		895		TEM	ADE11 ,SMCNT = EXIT =
07552			00200		905		802 80	EXIT •SKPPCH+
07564			00459 08277		91C 915		BD TF	ADRE6 ,SMTLUIE11#
07576 07588			07725		915	ADR	TF	BLKST‡
01366	<u> </u>	00000	01162	<u> </u>		BUIL		

LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	14
07600	26	07773	07594	06	935		TF	CKF&11	, * -6‡		
07612	11	07773	000-2	06	945		AM	CKF&11	, 2	, 10‡	
07624		07620			955		TEM	ADR&32	,6	,10#	
07636		07666			965		TF	* & 30	SMTLU1811		
07648		07666			975		SM	*&18	,4	•10‡	
07660		00000			985	AD	TF		,SMCNT#		
07672		07666			995		SM	*-6	,5	, 10‡	
07684		07702			005	•	TF	*18	,* -18 		
07696		00000			015		MNCD	‡ CV-5		71	
07708	49	07762	-0000		025		B	CKF	,	,7‡	
07716 07725		10			035	BLKST	DORG DNB	1C#	····		
07726	1 1	07773	000.10		055	DLKSI	AM:	CKF&11	,10	, 10‡	
07738		07620			065		SM	ADR&32	,1	,10‡	
07750		07786			075		BNH	*£36‡	7.1	,101	
07762		07726			085	CKF	BNF	*-36#			
07774		07671			095	CINI	TEM	AD&11	,BLKST-6#		
07786		08277			105		AM	SMTLU1811		,10‡	
07798		08357			115		AM	SMCNT	,70	,10 ‡	
0781C		C8277			125	FIN	Ch	SMTLU1811		· · · · · · · · · · · · · · · · · · ·	
07822		07564			135		BN	ADR-24#			
07834		07986			410	EXIT	B.D	MCON7-24,	SKPPCH#		
07846		07926			420		BC3	LCOP#			
07858		00402			430		TR	402, BUFBA	S&2 		
07870	49	07882	-0152	07	440		В	STOPER, 15	2,7#		
07882	34	00000	00102		450	STOPER	RCTY	+			
07894		02819			470			LSUBS#			
07906		00000			480		RNCD	‡			
07918	49	00000	00000		490		В	*	······································		
07925		1			500		DC	1,0,#-4#			
07926					510		DORG				
07926		16574			520	LOCP	TDM	BUFBAS&50			
07938		16525			530		TEM	BUFBASE1,	402#		
07950		16521			540			LOAD-2#			
07962		02813			550			LSUBS-6#			
07974		07877			560			STOPER-5#			
07986		00000 16441			570 580		RCTY	<u> </u>			
07998			16518			MOON7		*818,FCTE	ND+		
08022		00000			600	POUNT	TF	,CRAM#	INUT		
08034		08087			610		TF	*853,*-7	•		
08046		08028			620		SM	*-18,10,1		······································	
08058		08028			630		CM	*-30,LAST			
08070		08022			640		ВН	*-48‡	_ 		
08082		80000			650		TDM	8#			
08094		05648			660		TF	EMM&6,MOC	N7818#		
08106_		16135			670		S		JUSEDFS&49+		
08118		K0000			680		K	20000	,20102	,2‡.	
C8125				07	685	INCREM	DS		, *-4‡		
08130		15921			687		TOM	TRACE&1	,1‡		
08142	39	16481	00100		690			LSTM#			
08154	41	N1000	00000		700		NOP	51000	7	,2‡	
08165					705	<u>F1</u>	DS		,*‡		
08166		08155			710		TDM	*-11,8#			
08178	38	16280	C04C0	07	740		WNCD	LROUT#			

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LGCTN	<u>OP</u>	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	15	_ <u>C</u>
08190	38	16360	00400	07	750		WNCD	LROUT2#			
08202		00402			760		В	INITL#		·	
0821C					770		DORG	+−3 ‡			
08210	26	08357	16512		780	SMTLU	TF	SMCNT, MEMCAP-1#			
08222	26	08276	16511	07	790		TF	SMTLU1810, MEMCAP-2+	· · · · · · · · · · · · · · · · · · ·		
08234	49	08266	00000		800		В	SMTLU1#			
C8242					810			#-3#			
08242		08356			820	SMLOOP		SMCNT-1,1,10#			
08254		08276			830		SM	SMTLU1810,1,10#			:
08266		17153			840	SMTLU1		COMP,9#	•		
08278		08310			850			*&32,COMP-2*	<u></u>		
08290		08242			860		BNF	SMLOOP, SYM-2+			
08302	49	08526	00000		870		B	SMTST#			
08310		00050	17140		880			#-3 ‡			
08310		08358			890		BNF	SMNOT, COMP-4+			 .
08322		08356			900		TF	SMCNT-1,COMP-1#			. :
08334		17149			910		TDM	COMP-4,0#			
08346	49	08242	R9999		920	CHCNT	В	SMLOOP, 99999,7#			
08357	-,-	00504	17162		930	SMCNT	DS	,**			
08358		08526			940	SMNOT	BNR	SMTST,COMP+			•
08370		11338			950		BNR	NOSPCE, COMP-1+			
08382		08399			960		TF .	*617,SMTLU1610*			1
08394		00009			970	····	TF	9,SYM‡			
08406		08478			980		BNF	MOON3,SYM#			
08418		17143			990		CF TDM	SYM# SYM&1#	·		
08430	10	17144	00000		000						1
08441 08442	21	00089	17124		010	··	DC TR	1,0,** 89,SYM-9*			
C8454		00088			030		TF	88, SMCNT#			
08466		14798			040		BT	COMGO,COMGO-1#			
08478		08794			050	MOON3	BD	DMM, DMSWCH+			
08490		17173			070	HOUND	CM	CHI,24,10‡			
08502		11262			080		BNE	PUTETA-12#			
08514		11356			090		BTM	ERROR,72,8‡			
08526		17143			100	SMTST	C	SYM, COMP#			
08538		08242		08	110	3	BV	SMLOOP#			
08550		08242			120		BNE	SMLOOP#			
08562		17153			130		C	COMP, SYM#			
08574		08242			140		BV	SMLOOP#			
08586		17145			150		TR	COMP-8, ETAC-7#			
08598		08277			160		C	SMTLU1&11,FCTEND#			
C8610		11238			170	-	BNH	PUTETA-36#			
08622		08644			180		TD	*822,SMCNT-1*			
08634		08658			190		BD	*824,200		* .	
08646		08356			200	·	AM	SMCNT-1,1,10#			
08658	16	08712	J6035		210		TFM	*&54,USEDFS-51#			-
0867C	26	08705	08356		220		TF	*&35,SMCNT-1#	· .		
08682		08704			230		SF	* & 2 2 ‡			
08694		08712			240		AM	* £18 , ‡			<u> </u>
90780		16035			250		TDM	USEDFS-51,1#			
<u>C8718</u>		08357			260		TDM	SMCNT,0#			
08730		17173			270		TEM	CHI,46,10‡			
08742		11527			280		TDM	FXORFL#			
08754		09403			290		TEM	CSORN-1, * &20 +			
08766	49	11274	00000	08	300		В	PUTETA#			(`
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LOCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 16
08774				0.8	310		DORG	*-3
08774	15	00697	00001		320		TDM	FSTSW,1‡
08786		12512			330		В	TFSAVE#
08793					340		DORG	
08794	26	09053	08357		350	DMM	TF	DIMONT, SMCNT#
08806		17173			351		CM	CHI ,24 ,10‡
08818		08850		80	352		BE	* &32 ‡
08830	44	09122	00699	30	354		BNF	DIMC-32 , DMSWCH+
08842	49	09054	00000		356		В	DIMB&12‡
08850					358		DORG	
08850		08276			360		SM	SMTLU1&10,1,10#
08862		08927			370		TF	DIMAE5,SMTLU1E10+
08874		09047			380		TF	DIMB&5, SMTLU1&10+
08886		C9052			390		AM	DIMONT-1,1,10+
08898		17170			400		TR	CHI-3,CHI-1‡
08910	_	09178			410		ВТМ	CFXN,0,10‡
08922		19994			420	DIMA	TF	19994,SYM#
08934		17170			430		TR	CHI-3,CHI-1‡
- 08946		17171			440	· · · · · · · · · · · · · · · · · · ·	CM	CHI-2,4,10‡
08958		09154			450		BE	DIMC+
08970		17153			460 470		TF	SYME10, SYM#
08982		09178 17153			480		BTM M	CFXN,,10+ SYM&10,SYM+
08994 09006		00096			490		SF	96‡
09018		17170			500		TR	CHI-3,CHI-1‡
09016		09052			510		S	DIMONT-1,99#
09042		19999			520	DIMB	TEM	19999,‡
09053	10	17777	0000		530	DIMONT	DS	1##
09054	45	09086	17175		540	DINOR	BNR	#632,CHI62#
09066		00699			550		TDM	DMSWCH#
09078		00462			560		В	BEGIN‡
09086		<u> </u>			570		DORG	
09086	14	17173	000K3		580		CM	CHI,23,10‡
09098		17170			590		TR	CHI-3,CHI-1#
09110	46	09134	C12CO	08	600		BE	*&24‡
09122		11356		C8	610		BTM	ERROR, 79, 8‡
09134		09532			620		BNR	CS, CHI & 2 +
C9146	49	09122	00000	80	630		В	*-24‡
09154					640		DURG	
09154		09052			650	DIMC	S	DIMONT-1,SYM#
09166		09042			660		В .	DIMB#
09178		17139			670	CFXN	TEM	SYM-4,,8‡
09190		09220			680		TFM	*&30,SYM-4‡
09202		09220			690		AM	*&18,1,10 [‡]
09214		17140			700		TD	SYM-3,CHI+
09226		17170			710		TR	CHI-3,CHI-1#
09238		09258			720		BNR	*820,CHI =
09250	49	09306	00000		730		B	* £56 ‡
09258	1 /	17170	000 0		740			#-3‡
09258		17173			750		CM	CHI,,10‡
09270		09226			760		BE	#-44‡
09282		17173			770		CM	CHI,69,10‡ CFXN&24‡
09294		09202			780 790		CM CM	CFXNG24# CFXNG42,SYM#
09306 09318		09220 10392			800		BH	EXCESS#
070.10	70	10735	01100	- 00	000		011	LINGLOUT

LCCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	17
09330	26 0	9353	09220		810		TF	*&23,CFXN&42*		
09342			00000	80	82C	•	TF .	SYM#		
09354			00000		830		SF	SYM-3‡		
09366			09176		840		BNF	*814,CFXN-2+		
09378	42 0	0000	00000		850		ВВ	‡		
09380					860		DORG		*	
09380			09177		870		1E	CSORN-1, CFXN-1+		
09392			00000		880		В	SMTLU#		
09404			000-3		890	CSORN	CM	CHI,3,10#		
09416			00000		900		TDM	FXORFL#		
09428			01200		910		BE	NUMBER#		
09440			COOPO		920		CM	CHI,70,10‡		
09452			01300		930		BNL	NUMBER#		
09464			0C0M8		940		CM	CHI,48,10+		
09476			01100		950		ВН	* &20 		
09488	49 C	09532	00000		960		В	CS#		
09496					970			*−3 ‡		
09496			CCON5		980		CM	CHI,55,10#		
09508			C1100		990		вн	CS#		
09520			00002		000		TDM	FXORFL,2‡		
09532			J7135		010	CS	TFM	SALTE6,SYM-8+		
09544			11419		020		TF	SYM&1,ZERO9+	*	
09556			17173		030	SALT	TF	SYM-3,CHI+		
09568			17172		040		TR	CHI-3,CHI-1#		
09580			C00-2		050		AM	SALT&6,2,10#		
09592			000M0	09	060		CM	CHI,40,10#		
09604			01300		070		BNL	SYMCHK#		
09616			00000	09	080		CF	SYM-1+		
09628			00000		090		CF	SYM-3‡		
09640			00000	09	100		CF	SYM-5‡		
09652			C0000		110		CF	SYM-7‡		
09664	49 (08210	00000		120		В -	SMTLU#		
09672					130			#-3#		
09672			J7140		140	FXNUMB		NUMB186 ,SYM-3+		
09684			00002		150		TDM	FXORFL,2‡		
09696			01100		160		BH	EXCESS#		
09708			C-000		170		TEM	SYM-8	, 8 ‡	
09720			09938		180		TF	*&23,NUMB1&6+		
09732			00000		190		TF	SYM81#		
09744			00000		200		SF	SYM#		
09756			00000		210		SF	SYM-3#		·
09768			00000		220		В	SMTLU#		
09780			08165		230	NUMBER		SYM ,F1#	<u> </u>	
09792			JC048		24°C		TEM	NUMBER-1, NUMB3+		
09804			J7136		250	· · · · · · · · · · · · · · · · · · ·	TFM	NUMBIE6 ,SYM-7#		,
, 09816			000P0		260		CM	CHI,70,10‡	*	
09828			01200		270		BNE	*832\$	<u> </u>	· · · · · · · · · · · · · · · · · · ·
C9840			17174		280		TR	CHI-1,CHIE1#		
C9852	49 (09816	CCUCC		290	· · · · · · · · · · · · · · · · · · ·	В	#-36#		
C9860					30C	-		* -3 *		
			000-3		310	NUMB	CM	CHI,3,10#		
09860	46	09988	C12C0		32C		BE	FLNUMB#		
09860 09872					220		C N	CHI,69,10#		
09872 09884	14		00009		33C					
C98 7 2	14 47 (09672	00009 01100 J7143	09	340 350	-	BNH CM	FXNUMB‡ NUMB1&6,SYM‡	·	

	LCCTN	CP	P/L	0	PG	LN	LABEL	MNEM	OPERANDS AND I	REMARKS	PAGE	18
	09920	46	09944	01100	0.9	360		ВН	NUMB1812#			
***************************************	09932		00000			370	NUMB1	TD	,CHI‡			
	09944		17172			380	,,,,,,,,,	TR	CHI-1,CHI&1#			
	09956		09938			390		AM	NUMB186,1#			
	09968		17135			400	NUMB5	AM	SYM-8 ,1		,010#	
	09980		09860			410		В	NUMB#			· · · · · · · · · · · · · · · · · · ·
	09988					420		DORG				
	09988	26	10150	09938		430	FLNUMB		NUMB286, NUMB1	£6‡		
	10000		17135			440		CM	SYM-8 ,51		, 10‡	
	10012	46	10036	01200	09	450		BE	* &24 			
	10024	16	09779	JC156	09	460		TEM	NUMBER-1, NUMB			
	10036	26	10090	09779	09	470		TF	VARBREG, NUMBER	R-1#		
	10048		17135			480	NUMB3	SM	SYM-8 ,1		, 10‡	
	10060		17172			490		TR	CHI-1,CHI&1+			
	10072		17173			500	·	CM	CHI,70,10#	-		
	10084		00000			510	VARBR	BE	‡			
	10096		10176			520		BNH	CMPAR#			
	16168		10090			530		TFM	VARBREA, NUMB2			
	10120			J7143		540		CM	NUMB2&6 ,SY	M#		
	10132		10156			550		ВН	NUMB2&12#			
	1C144	25	00000	17173		560	NUMB2	TD	,CHI+			
	10156		10150			570		AM	NUMB286,1#			
	10168	49	10060	00000		580		B	NUMB3&12#			
	10176		17170	00045		590	CHRAD		*-3‡			
	10176		17173			600	CMPAR	CM	CHI,45,10#			
	10188		10368			610		BNE	PLUSE12#	101		
	10200		10366	09978 000K0		620 630		TF CM	PLUS&10, NUMB5 CHI&2, 20, 10‡	GIU+		······································
	10212 10224			01300		640		BL	*836 ‡			
	10236			C12C0		650	•	BNE	*836‡			
	10238			00002		660		TDM	PLUS & 1, 2 ‡			
	10260		17172			67C	**	TR	CHI-1, CHI&1#			
	10272			17175		080		TD	PLUSE11, CHIE2	ŧ		
	10212			17176		690	***************************************	TR	CHI-1, CHI&3+			
	10296			00009		700		C M	CHI,69,10#			
	1C308			01100		710		BNH	PLUS#			
	10320			10367		720		S	PLUSE10, PLUSE	11‡		
	10332			17173		730		TD	PLUS&11,CHI#			
	10344			17174		740		TR	CHI-1, CHI&1+			
	10356		17135			750	PLUS	AM	SYM-8#			
	10368			01400		760		в٧	EXCESS*			
*****	10380			17135		770		BNF		M-8‡		
	10392	17	11356	0-073	09	780	EXCESS		ERROR ,73		,8‡	
	10404			00000		790		TDM	FXORFL,0#			
	10416			00000	09	800		SF	SYM#			
	10428	43	08210	17136		810		BD	SMTLU,SYM-7#			
	10440			000-0		820		TEM	SYM-8 ,		,10‡	
	10452	49	08210	00000		830		В	SMTLU#			
	10460					840			*-3‡			
	10460			J7145		860	SYMCHK		SALTE6, SYME2#		4	
	10472			01200		87C		BNE	SALT#			
	10484			00702		880	•	BNF		SWCH#		
	10496	49	04652	00000		890		<u>B</u>	#8 68 #			
	10504					900			*-3‡			
	10504	26	10538	C8276	09	920	SCRIPT	TF	*834,SMTLU181	<u>U ‡</u>		

LCCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 19
10516	12	10539	00000	0.9	930		SM	*823,10,10
10528		08514			940	·	BNF	SMTST-12,5‡
10540		10562			950		TF	*622,*-2 ‡
10552		10572			960		BNF	*&20,6‡
10564		08514		09	970		В	SMTST-12#
10572					980		DORG	* −3 ‡
10572		00698			990	-	TDM	SBSWCH, 2‡
10584		10819			000		TR	ETAN, ETAC-8‡
10596		10823			010		TF	ETAN&4, SMCNT+
10608		10822			020		AM	ETAN&3,1,10‡
10620		10654			030		TF	*634, SMTLU1610‡
10632		10654			040		SM	* £22,1,10 [‡]
10644		00004			050 060		TF BTM	OUT&4 ,4‡ COLECT,*&12‡
10656		11014 00005			070		TR	OUT&5 ,SYMBSB-4+
10668 10680		10822			080		S	ETAN&3,NOMB+
10692		17173			090		CM	CHI,23,10#
10704		10838			100		BE	TWODIM#
10716		10930			110	QUERY	BNF	GORE ,OUT&9‡
10728		17172			120	QUEIN	TR	CHI-1,CHI&1+
10740		00698			130		TDM	SBSWCH#
10752		10826			140	1	TD	ETAN&7, FXORFL#
10764		11306			150		BD	PETA, FLAGSW#
10776		10794			160		AM	*818,9,10*
10788		00000			170	PUTETB	TR	,ETAN‡
10800		10818			180		TF	#£18,CSORN-1#
10812	49	98765	00000	10	190		В	98765‡
10819					200	ETAN	DS	, #-4#
10827		4			210	5716	DS	4‡
10836		9	10050		220	ETAC	DC	9,0‡
10838		11014			230 240	TWODIM	TR	COLECT, *&12‡ OUT&10 ,SYMBSB-4‡
10850 10862		00010 00004			250		M	OUTE4 ,NOMB+
10874		00096			260		SF	96‡
10886		10822			270		S	ETAN&3,99‡
10898		10822			280		A	ETAN&3 ,OUT&4#
10910		10930			290		BNF	GORE ,OUT&14+
10922		10716			300		В	QUERY‡
10930					310			*-3‡
10930	11	11317	000-1		320	GORE	AM	SUBN,1,10‡
10942		10825			330		TF	ETAN&6, SUBN+
10954	13	11317	0C0J5	10	340		MM	SUBN,15,10#
10966		10996			350	·	TFM	*630,TOP&1*
10978		10996			360		S	*&18,99 [‡]
10990		00000			370		TR	,OUT&1‡
11002		10728			380		В	QUERY&12‡
11014		11207			390	COLECT		FAGRE1,3#
11026		16071			400		TEM	SYMBSB,0,711#
11038		11217			410		TFM	NOMB,,8‡
11050		17172			420		TR CM	CHI-1,CHI&1+
11062 11074		17173 11182			430 440		BH	CHI,69,10‡ FAGR-24‡
11074		09532			450		BTM	CS,2,10‡
11098		16071			460		TF	SYMBSB, SMCNT#
11110		17173			470		CM	CHI,10,10‡
			22000				 	

1122 46 1170 01200 10 480 BE *648# 1134 14 17173 05080 10 490 CM CH1, 20, 104 1134 14 17173 05080 10 500 BNE FAGR612# 1158 15 1207 05002 10 510 TDM FAGR61, 2# 11170 31 17172 17174 10 520 TR CH1-1, CH161# 11182 17 70178 05000 10 530 BTM CFXN*, 100* 11192 17 70178 05000 10 550 FAGR CF NOMB\$, SYM\$ 11206 33 11217 05000 10 550 FAGR CF NOMB\$, SYM\$ 11218 26 11236 11013 10 560 TF *818*, COLECT-1# 11230 49 00000 00000 10 570 B # 11230 49 00000 00000 10 570 B # 11238 10 580 DORG *-3# 11238 10 580 DORG *-3# 11238 10 580 DORG *-3# 11228 14 17173 05044 16 600 CM CH1, 24, 104 11250 46 10504 01242 10 610 BE SCRIPT*, 42# 11264 33 1260 00698 10 620 BD *-2, \$ESSNCH\$ 11274 31 10819 10828 10 630 PUTETA TR ETAN, ETAC-8# 11268 26 10823 08357 10 640 TF ETAN, ETAC-8# 11268 26 10823 08357 10 640 TF ETAN, ETAC-8# 11268 26 10823 08357 10 640 DORG *-3# 11317 2 10 675 SUBM DC 2 0 0.0000 10 650 BO UDGR *-3# 11317 2 10 675 SUBM DC 2 0 0.0000	— 160	TN	СP	P/L	Q	D.C.	1.0	LABEL	MNEM	OPERANDS AND REMARKS PAGE 20
11134	OLUC	TIN	UP	P/L	А	<u> </u>	LIV	LAUCL	PINE	OF ENANDS AND REMARKS TAGE ES
11146	111	.22								
11158 15 1207 00002 10 510 TDM FAGRE1,2#								-		
11170 31 17172 17174 10 520								****		
11182										
1194 26 11217 17143 10 540 TF NOMB, SYM# 11218 26 11236 11013 10 560 TF \$618, COLECT-1# 11219 26 11236 11013 10 560 TF \$618, COLECT-1# 11230 49 00000 00000 10 570 B # 11217 10 590 NOMB DS FAGRG11# 11248 14 17173 COUN 10 600 CM CH1, 24, 104 11252 46 10564 01242 10 610 BE SCRIPT, 42# 11262 43 11260 00698 10 620 BD #-2, SBSWCH# 11268 24 12823 08377 10 640 TF ETAN, ETAC-B# 11268 26 10823 08377 10 640 TF ETAN, ETAC-B# 11298 49 10752 00000 10 650 B QUERYS36# 11306 32 10826 00000 10 650 B QUERYS36# 11317 2 10 660 TDM FLAGSW, 0# 11318 15 00770 00000 10 680 TDM FLAGSW, 0# 11338 17 11356 0-074 10 720 NOSPCE BTM ERROR, 74, B# 11354 5 10 730 DS 54 11356 26 11441 11355 10 740 ERROR TF ERRMSS820, ERROR-1# 11398 15 00839 00001 0 750 TDM FLAGSW, 0# 11399 10 00700 00700 00700 00700 11368 39 11421 COLOO 0 755 TDM TYST61 11# 11404 49 03974 00000 10 750 TDM FLAGSW, 0# 11441 10 780 DORG *-3# 11441 10 780 DORG *-4# 11441 10 780 DORG *-4# 11451 12 10 785 ZEROP DC 9 10# 11441 10 780 DORG *-4# 11452 15 00839 00001 0 770 B CONPMT-20# 11441 16 1453 000-0 0 890 ERROR TFM PUTOME6, PHIE220# 11451 14 1453 000-0 0 890 TFM PUTOME6, PHIE220# 11452 14 1453 000-0 0 890 TFM PUTOME6, PHIE220# 11453 14 1453 000-0 0 930 BNE SS# 11554 46 11576 C1200 10 910 BR SS8 11556 47 12380 01200 10 930 BNE SS#										
11266 33 11217 00000 10 550 FAGR CF NOMB+ 11218 26 11236 1013 10 550 TF *518, COLECT-1* 11230 49 00000 00000 10 570 B # 11230 49 10713 00084 10 590 NOMB DS FAGRE11* FAGRE11* 11260 46 10504 01242 10 610 BE SCRIPT,42* 11262 43 11260 00698 10 620 BD *-2,585MCH* 11264 31 10819 10828 10 630 PUTETA TR ETAM,ETAC-8* 11266 26 10823 08357 10 640 TF ETAM,ETAC-8* 11366 10 660 DORG *-3* 11306 11306 10 660 DORG *-3* 11316 15 00700 00000 10 670 BE ULERVESO** 11306 11306 10 660 TDM FLAGSW,0* 11332 49 10776 00000 10 690 B PUTETB-12* 11338 17 11356 0-074 10 720 NOSPCE BTM ERROR,74,88* 11354 5										
11216								FAGR		
11238			26	11236	11013				TF	*&18,COLECT-1#
11217			49	00000	00000					
11238										
1125C 46 10504 01242 10 610 BE SCRIPT, 42‡ 11262 43 11260 00698 10 620 BD = -2,58SMCH* 11274 31 10819 10828 10 630 PUTETA TR ETAN, ETAC-08† 11286 61 10823 08357 10 640 TF ETAN, ETAC-08† 11298 49 10752 00000 10 650 B QUERV336* 11306 02 10826 00000 10 670 PETA SF ETAN, ETAC-98† 11316 32 10826 00000 10 670 PETA SF ETAN, ETAC-9* 11317 2 10 675 SUBN DC 2 ,0 ,** 11318 15 00700 00000 10 680 TDM FLAGSW, 0* 11330 49 10776 00000 10 690 B PUTETB-12* 11318 17 11356 0-074 10 720 NCSPCE BTM ERROR, 74, 8* 11354 5 10 730 DS 5* 11356 26 11441 11355 10 740 ERROR TF ERRMSS\$20, ERROR-1* 11392 15 00839 00001 10 765 TDM TYSTE1 ,1* 11401 49 03974 00000 10 770 B CONPMT-20* 11411 12 10 780 DORG *-4* 11411 12 10 780 DORG *-4* 11414 16 11453 CO-0 10 840 TFM MOMI, 00, 104 11451 12 10 830 MOM1 DC 2 , , *-2* 11466 16 16794 J6694 10 860 TFM PUTOHNEG, PHIE220* 11460 14 11453 00013 10 880 CM OMM1, 00, 104 11594 44 11453 00014 10 890 BE SSB* 11504 44 11453 00014 10 890 BE SSB* 11504 44 11453 00014 10 890 BE SSB* 11504 46 11576 C1200 10 910 BE *8364* 11504 47 12380 01200 10 930 BNF SSB* 11506 47 12380 01200 01 930 BNF SSB* 11506 47 12380 01200 01 930 BNF SSB* 11506 47 12380 01200 01 930 BNF SSB* 11506 47			1,	17170	00087			NOMB		
11262										
11274 31 10819 10828 10 630 PUTETA TR ETAN,ETAC-8# 11286 26 10823 08357 10 640 10 650 B QUERY&364 11306 10 660 10 660 0 0 0 0 0 0 0 0										
11286 26 10823 08357 10 640 TF ETAN&4, SMCNT* 11298 49 10752 00000 10 650 B QUERY&36\$ + 11306 32 10826 00000 10 660 DORG #-3\$ + 11318 15 00700 00000 10 680 DORG #-3\$ + 11318 15 00700 00000 10 690 B PUTETB-12\$ + 11338 10 700 DORG #-3\$ + 11338 17 1356 0-074 10 720 NOSPCE BTM ERROR, 74, 8\$ + 11354 5 10 730 DORG #-3\$ + 11356 26 11441 11355 10 740 ERROR TF ERRMSS\$20, ERROR-1\$ + 11380 39 11421 00100 10 750 MATY ERRMS\$4 ERROR, 74, 8\$ + 11390 15 00839 00001 10 760 TDM SKPPCH, 1, 11\$ + 11410 9 10 780 DORG #-4\$ + 11411 10 780 DORG #-4\$ + 11441 12 10 780 ERROR TF ERROR NO. # 11441 12 10 780 ERROR TF ERROR NO. # 11441 12 10 780 ERROR TF ERROR NO. # 11441 12 10 780 ERROR TF ERROR NO. # 11441 12 10 780 ERROR TF ERROR NO. # 11453 2 10 830 ASCAN TF OMM1, 00, 10\$ + 11468 16 14950 J6902 10 850 TF PUTGME6, PHI&220\$ + 11468 16 14950 J6902 10 850 TF PUTGME6, PHI&220\$ + 11468 16 14950 J6902 10 850 TF PUTGME6, PHI&220\$ + 11490 47 1175 10 870 SORR SSA, CHIEZ* 11504 41 1453 000KM 10 900 ERROR SSB SSA, CHIEZ* 11504 41 1453 000KM 10 900 ERROR SSB SSB SSB 11516 46 11588 C1200 10 910 BE SSB SSB								PUTETA		
11288										
11306 32 10826 00000 10 670 PETA SF ETAN&T	112	298				10	650		В	QUERY&36‡
11317					·					
11318			32		00000					
11330			1.5		00000			ZORM		
11338										
11338 17 11356 C-074 10 720 NOSPCE BTM ERROR,74,8‡ 11354 5 10 730 DS 11356 26 11441 11355 10 740 ERROR TF ERRMSS\$20,ERROR-1‡ 11368 39 11421 CC100 10 750 WATY ERRMSS‡ 11380 15 CO459 CCCCJ 10 760 TDM SKPPCH,1,111‡ 11392 15 CO839 CCCCJ 10 765 TDM TYST61 ,1‡ 11404 49 03974 CCCCC 10 785 ZERO9 DC 9 ,0‡ 11411 10 785 ZERO9 DC 9 ,0‡ 11421 12 10 790 ERRMSS DAC 12,ERROR NO. @‡ 11441 16 11453 CCC-0 10 830 ASCAN TFM OMM1,00,10‡ 11453 2 10 835 CMM1 DC 2 , ,*-2‡ 11466 16 15041 CC-CC 10 840 TFM ACC,,9‡ 11480 16 10794 J6694 10 860 TFM PUTEMB6,PHI&22O‡ 11480 16 10794 J6694 10 860 TFM PUTEMB6,PHI&22O‡ 11492 45 11764 17175 10 870 S BNR SSA,CHI&2‡ 11504 14 11453 CCCC 10 890 BE SSB‡ 11516 46 11588 C12CC 10 890 BE SSB‡ 11527 1 10 895 FXORFL DS 1 ,** 11528 14 11453 CCCCC 10 890 BE SSB‡ 11552 14 11453 CCCCC 10 910 BE *&\$64\$			72	10110	00000					
11354			17	11356	0-074			NOSPCE		
11368 39					·····			- <u>, , , , , , , , , , , , , , , , , , ,</u>		
1138C 15 00459 0C00J 10 760 TDM SKPPCH,1,11‡ 11392 15 00839 00001 10 765 TDM TYST&I 1.1 11404 49 03974 00000 10 770 B CONFMT-20\$ 11411								ERROR		
11392										
114C4										
11411 11419 9 10 785 ZER09 DC 9 ,0‡ 11421 12 10 790 ERRMSS DAC 12,ERROR NO.										
11419			49	03914	00000					
11421				9				ZERO9		
11444 16 11453 COO-O 10 830 ASCAN TFM DMM1,00,10‡ 11453 2 10 835 DMM1 DC 2 , ,*-2‡ 11456 16 15041 CO-OO 10 840 TFM ACC,,9‡ 11468 16 14950 J6902 10 850 TFM PUTOMH&6,PHI&220‡ 11480 16 10794 J6694 10 860 TFM PUTETB&6,PHI&12‡ 11492 45 11764 17175 10 870 S BNR SSA,CHI&2‡ 11504 14 11453 000L3 10 880 CM DMM1,33,10‡ 11516 46 11588 C12C0 10 890 BE SSB‡ 11527 1 10 895 FXORFL DS 1 ,*‡ 11528 14 11453 COOKM 10 900 CM UMM1,-24,10‡ 1154C 46 11576 C12C0 10 910 BE *&36‡ 11552 14 11453 000K4 10 920 CM OMM1,24,10‡ 11564 47 12380 01200 10 930 BNE SS‡ 11576 17 11356 O-O71 10 940 ER1 BTM ERROR ,71 ,8‡ 11588 17 12862 COC-O 10 950 SSB BTM CODE,,10‡ 1160C 44 15744 OC696 10 960 BNF FOF ,EQSW‡ 11612 43 11680 12838 10 970 BD *&68 ,INSTI&14‡ 11624 43 11660 12854 10 980 BD *&68 ,INSTI&14‡ 11624 44 11700 12836 10 990 EQ2 BNF EQ3 ,INSTI&12± 11648 44 11732 12852 11 OOO BNF EQ4 ,INST2&12‡ 11660 33 00696 CC000 11 010 CF EQSW‡										
11456 16 15041 CO-OO 10 840			16	11453	000-0	10	830	ASCAN	TFM	OMM1,00,10‡
11468 16 14950 J6902 10 850								OMM1		
11480 16 10794 J6694 10 860 TFM PUTETB&6,PHI&12‡ 11492 45 11764 17175 10 870 S BNR SSA,CHI&2‡ 11504 14 11453 000L3 10 880 CM OMM1,33,10‡ 11516 46 11588 C1200 10 890 BE SSB‡ 11527 1 10 895 FXORFL DS 1 ,*‡ 11528 14 11453 C00KM 10 900 CM UMM1,-24,10‡ 1154C 46 11576 C1200 10 910 BE *&36‡ 11552 14 11453 000K4 10 920 CM OMM1,24,10‡ 11564 47 12380 01200 10 930 BNE SS‡ 11576 17 11356 0-071 10 940 ER1 BTM ERROR ,71 ,8‡ 11588 17 12862 0CC-0 10 950 SSB BTM CODE,,10‡ 1160C 44 15744 0C696 10 960 BNF FOF ,EQSW‡ 11612 43 11680 12838 10 970 BD *&68 ,INST1&14‡ 11624 43 11660 12854 10 980 BD *&68 ,INST2&14‡ 11636 44 11730 12836 10 990 EQ2 BNF EQ3 ,INST2&12‡ 11648 44 11732 12852 11 000 BNF EQ4 ,INST2&12‡ 11660 33 00696 0C0000 11 010 CF EQSW‡										
11492 45 11764 17175 10 870 S BNR SSA, CHI 62 ‡ 11504 14 11453 000										
11504 14 11453 000L3 10 880								c		
11516 46 11588 C12CO 10 890 BE SSB‡ 11527 1 10 895 FXORFL DS 1 ,*‡ 11528 14 11453 C00KM 10 900 CM UMM1,-24,10‡ 1154C 46 11576 C12CO 10 910 BE *&36‡ 11552 14 11453 C00K4 10 920 CM OMM1,24,10‡ 11564 47 12380 C12CO 10 930 BNE SS‡ 11576 17 11356 C-071 10 940 ER1 BTM ERROR ,71 ,8‡ 11588 17 12862 CCC-C 1C 950 SSB BTM CODE,,10‡ 1160C 44 15744 CC696 1C 960 BNF FOF ,EQSW‡ 11612 43 11680 12838 1O 970 BD *&68 ,INST1&14‡ 11624 43 11660 12854 1O 980 BD *&36 ,INST2&14‡ 11636 44 1170C 12836 1O 990 EC2 BNF EC3 ,INST1&12‡ 11648 44 11732 12852 11 CCC CF EQSW‡								,		
11527										
11528 14 11453 COOKM 10 900								FXORFL		
11552 14 11453 000K4 10 920	115	528				10	900		CM	UMM1,-24,10+
11564 47 12380 01200 10 930 BNE SS‡ 11576 17 11356 0-071 10 940 ER1 BTM ERROR ,71 ,8‡ 11588 17 12862 0C0-0 10 950 SSB BTM CODE,,10‡ 11600 44 15744 0C696 10 960 BNF FOF ,EQSW‡ 11612 43 11680 12838 10 970 BD *&68 ,INST1&14‡ 11624 43 11660 12854 10 980 BD *&36 ,INST2&14‡ 11636 44 11700 12836 10 990 EQ2 BNF EQ3 ,INST1&12‡ 11648 44 11732 12852 11 000 BNF EQ4 ,INST2&12‡ 11660 33 00696 0C000 11 010 CF EQSW‡										
11576 17 11356 0-071 10 940 ER1 BTM ERROR ,71 ,8‡ 11588 17 12862 0C0-0 10 950 SSB BTM CODE,,10‡ 11600 44 15744 0C696 10 960 BNF F0F ,EQSW‡ 11612 43 11680 12838 10 970 BD *&68 ,INST1&14‡ 11624 43 11660 12854 10 980 BD *&36 ,INST2&14‡ 11636 44 11700 12836 10 990 EQ2 BNF EQ3 ,INST1&12‡ 11648 44 11732 12852 11 000 BNF EQ4 ,INST2&12‡ 11660 33 00696 0C000 11 010 CF EQSW‡										
11588 17 12862 0CC-0 10 950 SSB BTM CODE,,10‡ 11600 44 15744 0C696 10 960 BNF FOF ,EQSW‡ 11612 43 11680 12838 10 970 BD *&68 ,INST1&14‡ 11624 43 11660 12854 10 980 BD *&36 ,INST2&14‡ 11636 44 11700 12836 10 990 EQ2 BNF EQ3 ,INST1&12‡ 11648 44 11732 12852 11 000 BNF EQ4 ,INST2&12‡ 11660 33 00696 0C000 11 010 CF EQSW‡								CD3		
1160C 44 15744 0C696 10 960 BNF FOF FQSW‡ 11612 43 11680 12838 10 970 BD *&68 ,INST1&14‡ 11624 43 11660 12854 10 980 BD *&36 ,INST2&14‡ 11636 44 11700 12836 10 990 EQ2 BNF EQ3 ,INST1&12‡ 11648 44 11732 12852 11 000 BNF EQ4 ,INST2&12‡ 11660 33 00696 0C000 11 010 CF EQSW‡										
11612 43 11680 12838 10 970 BD *&68 ,INST1&14* 11624 43 11660 12854 10 980 BD *&36 ,INST2&14* 11636 44 11700 12836 10 990 EQ2 BNF EQ3 ,INST1&12* 11648 44 11732 12852 11 000 BNF EQ4 ,INST2&12* 11660 33 00696 00000 11 010 CF EQSW*								<u> </u>		
11624 43 11660 12854 10 980 BD *&36 ,INST2&14‡ 11636 44 11700 12836 10 990 EQ2 BNF EQ3 ,INST1&12‡ 11648 44 11732 12852 11 000 BNF EQ4 ,INST2&12‡ 11660 33 00696 00000 11 010 CF EQSW‡										
11636 44 11700 12836 10 990 EQ2 BNF EQ3 ,INST1&12 11648 44 11732 12852 11 000 BNF EQ4 ,INST2&12 11660 33 00696 00000 11 010 CF EQSW								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
11648 44 11732 12352 11 000 BNF EQ4 ,INST2612‡ 11660 33 00696 00000 11 010 CF EQSW‡								EQ2		EQ3 ,INST1812#
	110	848	44	11732	12852	11	000		BNF	EQ4 ,INST2&12#
	110	560	33	00696	00000	11	010		CF	EQSW#
										200
										200

LCCTN	СР	P/L	Q	PG	LN	LABEL	MNEM	CPERANDS AND REMARKS PAGE 21
11672	4.0	15744	00000	1 1	020		В	FCF‡
11672 11680	47	13/44	00000		030			* −3 *
	4.3	11424	12054		040	•	BD	EQ2 ,INST2814#
11680 11692		11636 11660			050		В	#-32
11700	47	11000	00000		060			*-3±
11700	21	12826	12021		070	EQ3	TR	INST182 , INST187#
11700		12831			030	EWS	TR	INST167 , INST267‡
11724		15972			090		В	ZOT & 12 +
11732	49	15912	00000		100			*-3 [‡]
11732	26	12830	12025		110	EQ4	TF	INST186 ,INST1811#
11744		12835			120	L64	TF	INST1611 , INST2611‡
11756		15960			130		В	ZOT#
11764	47	13300	00000		140		-	* -3
11764	1.6	17173	COOMO		150	SSA	CM	CHI,40,10‡
11776		11812			160	33A	BNH	*836*
11788		00697			170		TOM	FSTSW#
11800		09404			180		BTM	CSORN,S‡
11812		17173			190		CM	6117
11824		11848			200		BE	#824 +
11836		00596			210	· · · · · · · · · · · · · · · · · · ·	CF	EQSW#
11848		17173			220		CM	CHI,10,10‡
11860		12072			230		BE	\$\$001\$
		17173			240		CM	CHI,20,10‡
11872 11884		12060			250		BE	SS4 ‡
11896		00697			260		TOM	FSTSW#
11908		17173			270		CM	CHI,4,10‡
					280		BE	SSCA1#
11920 11932		12224 17173			290		CM	CHI,21,10#
					300		BE	SS1‡
11944 11956		12428 17173			310		CM	CHI,14,10‡
		12136					BE	SS3‡
11968					320 330		CM	CHI,24,10‡
11980		17173			340		BE	SS5#
11992		12192			350			CHI,33,10#
12004		17173					CM	
12016		12500			360		BE	\$\$6‡
12028		17173			370		CM	CHI,3,10‡
12040		11788			380 390		BE B	SSAE24+ ER1+
12052	49	11576	00000		400			# - 3‡
1206C 12060	1 5	00700	DODOE		410	SS4	TDM	FLAGSW,5‡
12072		12104			420	55001	BD	*&32,FSTSW#
12072		00700			430	33001	TDM	FLAGSW, 0 #
		12380			440		3	SS#
12096	49	12366	00000		450			*-3 +
12104 12104	1 5	00697	00000		460		TDM	FSTSW,0‡
12114		17172			470		TR	CHI-1, CHI 61 =
12116		11492			480		8	S‡
12136	47	11472	00000		490			*-3 +
12136	1 /	17175	000 14		500	\$\$3	CM	CHI&2,14,10+
12136		12428			510	333	BNE	SS1#
12148		17170		11			TR	CHI-3, CHI-1‡
		00700			530		TDM	FLAGSW,5‡
12172 12184		12476			5 4 0		B	SS2‡
12184	45	12410	00000		550			332+
12192	1 5	00697	00001		560	\$\$5	TDM	FSTSW,1#
12172	4		00001		700			<u> </u>

	LOCTN	<u>CP</u>	P/L	Q	PG LN	LABEL	MNEM	OPERANDS AND REMARKS	PAGE	22
	12204		15041		11 570		ΔM	ACC,1,10#		
	12216	49	14920	ccoco	11 580		В	PUTOMG#		
	12224				11 590			* -3 +		
	12224		11453		11 600	SSCAL	CM	OMM1,33,10+		
	12236		11576		11 610		BE	ER1+		
	12248		12284		11 620		BNF	SSC , IFSWCH+		
	12260		17175		11 630		CM	CHI&2,23,10#		
	12272		04840		11 640		ВE	ER 7 ‡		
	12284		11453		11 650	SSC	CM	DMM1,24,10#		
	12296	46	12764	01200	11 660		BE	SSCA#		
	12308		11453		11 670		CM	DMM1,-24,10‡		
	12320		12672		11 680		8E	SSCB#		
~~~	12332		11453		11 690		CM	OMM1,46,10‡		
	12344	46	15392	01200	11 700		BE	CFCT#		
	12356		11453		11 710		CM	OMM1,49,10#		
	12368	46	04884	01200	11 720		BE	TEN+		
	12380		11453		11 730	SS	CM	CMM1,10,10+		
	12392	46	13090	C1200	11 740		BΕ	CADD#		
	12404	14	11453	CCOKO	11 750		CM	OMM1,20,10#		
	12416	46	13374	01200	11 760		BE	CSUB#		
	12428		11453		11 770	SS1	CM	OMM1,21,10#		
	1244C	46	13470	01200	11 780		ΒĒ	CDIV#		
	12452	14	11453	000J4	11 790	<u> </u>	CM	OMM1,14,10#		
	12464	46	13450	01200	11 800		BE	CMULT#		
	12476	14	11453	COOJM	11 810	SS2	CM	OMM1,-14,10#		
	12488	46	15020	C12C0	11 820		BE	CEXP*		
	12500	15	00697	00001	11 830	SSS	TDM	FSTSW,1#		
	12512	15	12825	00006	11 840	TFSAVE	TDM	INST181,6#		
	12524	26	12559	10794	11 850		TF	*835,PUTETB&6#		
	12536			000-9	11 860		SM	*&23,9,10 [‡]		
	12548	31	12826	00000	11 870		TR	INST182#		
	12560			00000	11 880		TDM	INST1&12,0#		
	12572			12832	11 890		BNF	PUTOMG, INST188#		
	12584			12834	11 900		BNF	*&20,INST1&10+		
	12596			00000	11 910		В	PUTOMG#		
_	12604		··· <del></del>		11 920			<b>*</b> −3 <b>‡</b>		
	12604	16	12835	-0060	11 930		TFM	INST1811 ,FAC+		
	12616			13905	11 940	**** *** · · · · · · · · · · · · · · ·	вт	PUT1,PUT1-1#		
	12628				11 950		TF	*&30,TFSAVE&47#		
_	12640			8-000	11 960		AM	*&18,8,10#		
	12652			00000	11 970		SF	‡		
	12664			00000	11 980		В	SS5&12‡		
	12672				11 990			*-3‡		
	12672	26	12707	10794	12 000	SSCB	TF	*&35,PUTETB&6#		
	12684			10794	12 010	- ·- ·-	TF	*&74,PUTETB&6+		
	12696			00000	12 020		TR	INST167, #		
	12708			12838	12 030		BNF	*632, INST1&14#		
_	12720			00000	12 040		CF	INST1814‡		
	12732			00000	12 050		В.	*&20 <b></b> ‡		
	12740	/		00000	12 060		DORG			
	12740	30	12838	00000	12 070		SF	INST1814#		
	12752			12831	12 080		TR	,INST167‡	· · · · · · · · · · · · · · · · · · ·	
	12764			17174	12 090	SSCA	TR	CHI-1,CHI&1#		
	12776			000-2	12 100		SM	PUTOMH&6,2,10#	··	
	12110	14		14950	12 110		TF	*&23,PUTOMH&6#		

_0	23	PAGE	DS AND REMARKS	OPERANDS	MNEM	LABEL	PG LN	Q	P/L	TN OP	LOCTN
				OMM1, #	TF		12 120	00000	11453	26	12800
		<del></del>		S#	В		12 130		11492		12812
ı				FAC+	TF	INST1	12 140		00060		12824
			· .	4,0#	DC		12 150		4		12839
1	•			FAD#	ВТ	INST2	12 170	00000	00480		12840
				4,0#	DC		12 180		4		12855
:			- 4	5‡	DS		12 190		5		12860
			6,TFFAC+		TF	CODE	12 200	16213	12830		12862
				INST281,	TFM		12 210		12841		12874
			1,PUTETB&6#		TF		12 220		12945		12886
				*&23,PUT	TF		12 230		12921		12898
				INST287#	TR		12 240		12847		12910
			,10 <b>‡</b>	<b>*&amp;23,9,1</b>	SM		12 250		12945		12922
			7‡	INST187#	TR	CODA	12 260		12831		12934
			NST2&14#	#826, INS	BD		12 270		12972		12946
!			NST1&14#	CODC, INS	BD		12 280		13058		12958
				<b>+</b>	BB	·	12 290	00000	00000		12970
				#-9#	DORG		12 300			72	12972
			NST1&14#	CODD, INS	BD		12 310	12838	13044	72 43	12972
			14,10#	OMM1,-14	CM		12 320	000JM	11453	84 14	12984
				FXEXP*	BE		12 330	01200	16020	996 46	12996
			3,10‡	OMM1,33,	CM		12 340		11453		13008
				FLOAT#	BE		12 350		15708		13020
			75,8‡	ERROR, 75	BTM	CODF	12 360	0-075	11356	32 17	13032
<u> </u>		-	10‡	OP,40,10	AM	CODD	12 370		13605		13044
			•	. #	BB		12 380	00000	C0000	356 42	13056
()					DORG		12 390				13058
	···		3,10‡	OMM1,33,	CM	CODC	12 400		11453		13058
				FIX#	BE		12 410		15688		13070
				CODF#	В		12 420	00000	13032		13082
				*-3*			12 430				13090
				OP, AFAD	TEM	CADD	12 440		13605		13090
				CODE,,10	BTM		12 450		7 12862		13102
1			INST1&14#		BNF		12 460		13234		13114
			INST2&14#		BNF		12 470		13322		13126
			•	FLAGSW,3	TDM		12 480		5 00700		13138
			INST2&13#		BNF		12 490		13194		13150
			7, INST1&7#		TR	CADDI	12 500		12847		13162
	<del></del>		81,41,1011#		TFM	CADDC	12 510		5 13607		13174
	4 2	×		C‡	В		12 520	00000	3 13594		13186
			THETTELO	*-3‡		21222	12 530				13194
			INST1&13#		BNF	CADDB	12 540		4 13214		13194
			-	CADDC#	BORG	<del></del>	12 550	00000	9 13174		13206
			C1 27 10114	*-3‡		C 4 D D D	12 560	00045			13214
			61,27,1011#		TFM	CADDD	12 570		6 13607		13214
				C#	В		12 580	00000	9 13594		13226
	<del></del>	· · · · · · · · · · · · · · · · · · ·	12 INCTACTA	*-3‡		CARRU	12 590	1205/	. 12202		13234
į.			12, INST2&14#		BNF	CADDH	12 600		4 13302		13234
			INST2&13#		BNF		12 610		4 13290		13246
1	:			FLAGSW,4	TDM		12 620		5 00700		13258
				OP,5,10	. AM		12 630		1 13605		13270
			•	CADDI#	В		12 640	00000	9 13162		13282
			<b>n</b> +	#-3‡		CADDI	12 650	000 5	1 12/05		13290
_				ELACSH	AM	CADDJ	12 660		1 13605		13290
<b>—(</b> )			177	FLAGSW,	TDM		12 670	00000	5 00700	3UZ 1:	13302
			_				6.4				

LECTN	OP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 24
13314	49	13150	00000		68C	,	В	CADDI-12‡
13322					690		DORG	<b>*-3</b> ‡
13322	44	13342	12853		700	CADDK	BNF	CADDL, INST2&13#
13334	49	13290	00000	12	710		В	CADDJ‡
13342				12	720		DORG	<b>*</b> −3 <i>‡</i>
13342	15	00700	00004	12	730	CADDL	TDM	FLAGSW,4‡
13354	11	13605	000-5		740		AM	OP,5,10‡
13366	49	13194	C000C	12	750		В	CADDB#
13374				12	760		DORG	<b>*−3</b> ‡
13374	16	13605	J6141		770	CSUB	TFM	CP,AFAD+
13386		12862		12	780		BTM	CODE,,10#
13398		13430			790		BNF	CSUBA, INST2814#
13410		12854			800		CF	INST2&14#
13422		13114			810		В	CADD&24‡
13430					820		DORG	
1343C	32	12854	00000		830	CSUBA	SF	INST2&14‡
13442		13114			840	000Dn	В	CADD&24‡
13450		4-J-4-4 T	20000		850	· · · · · · · · · · · · · · · · · · ·	DORG	
13450	16	13605	16151		860	CMULT	TFM	OP,AFMP#
13462		13482			870	CHOLI	В	CDIV&12‡
13470	77	13402	00000		880		DORG	
13470	1.6	13605	14141		890	CDIV	TFM	OP, AFDV+
13482					900	CDIV	ВТМ	CODE#
		12862			910		BNF	CMDA, INST1&14#
13494		13562						
13506		13574			920	·····	BNF	CMDA&12, INST2&14#
13518		00700			930	CHAS	TDM	FLAGSW#
13530		13194			940	CMDB	BNF	CADDB, INST2&13‡
13542		13605			950		AM	OP,5,10‡
13554	49	13162	00000		960		B	CADDI‡
13562		10510	10051		970	C+10.4		#-3#
13562			12854		980	CMDA	BNF	CMDB-12, INST2&14#
13574		00700			990		TDM	FLAGSW,5‡
13586	49	13530	00000		000		<u>B</u>	CMDB#
13594					010			<del>*-3</del> ‡
13594		12846			020		TF	INST286‡
13606		13906			030	COMMON	NOP	PUT1.PUT1-1#
13618		13642			040		BNF	#824,COMMON&1#
13630		13926			050		BT	PUT2, PUT2-1‡
13642			C0018	13			SM	PUTETB&6,18,10#
13654		17143			070	-	TF	SYM, ACC+
13666		09403			080		TFM	CSORN-1, #620#
13678	49	08210	00000		090		В	SMTLU#
13686			. <u></u>		100			*-3‡
13686		13716			11C		TF	*630,PUTETB&6‡
13698		13716			120		AM	<b>*£18,6,10</b>
13710		00000			130		SF -	#
13722		14950			140		SM	PUTOMH&6,2,10#
13734	26	13757	14950		150		TF	#623,PUTOMH66#
13746	26	11453	CC000		160		TF	OMM1+
13758	14	17173	000-4	13	170		CM	CHI,4,10‡
13770		12284			180		BE	\$30\$
13782		13802			190	<del></del>	BNR	#620,CHI62#
13794		11504			200		В	S&12‡
13802					210			*-3‡
13802			000J4		220		CM	CHI&2,14,10#

LOCTN	G P	P/L	Q	טר.	LN	LABEL	MNEM	OPERANDS	VND	REMARKS	S PAGE	25 🕜
						LAULL	<del></del>		7110			
13814		12160			230		BE	\$\$3824#				
13826		11453			240		CM BE	OMM1,24, PUTOMG#	LU‡			
13838 13850		14920 11453			250 260		CM	OMM1,-24	10±			
13862		14920			270		BE	PUTOMG#	, 10+			
13874		11453			280	·	CM	OMM1,33,	10#			
13886		14920			290		BE	PUTOMG#				
13898		114R2			300		В	S,,5#				
13906					310			*-3‡				
			1000/		320			JT INES#		• •		
13906		13961			330 340	PUT1	TFM	PUT2&35,		1#		
13918 13926	49	139L8	00000		350		B	PUT2&12, *-3#	<b>9</b> 2 +			
13926	16	13961	12840		360	PUT2	TEM	PUT2&35	INS	T2#		
13938			14688		370	. 012	TR	OUT	-	UBI+		•
13950			C0000		380		TR	#003TUD				
13962	43	14018	00072	13	390		BD	*856		UT&72‡		
13974	43	14018	00073		400		BC	<b>*</b> & 4 4		UT&73#		
13986			000J2		410		TEM	PUTX-1,1				
13998			00060		420		TR	OUT	•0	#0931N		
14010	49	14452	00000		430	· · · · · · · · · · · · · · · · · · ·	B	PUTX# #-3#		····		<del></del>
14018	6.6	12004	00072		440 450		BNF	<del>*</del> −3∓ *−32	n	UT&72‡		
14018			00072		460		CF	OUT&73‡	• •	01412+	· · · · · · · · · · · · · · · · · · ·	
14042			000J5		470		MM	OUT & 73	, 1	5	<b>,</b> 10‡	
14054			J7133		480		TFM	*835,TOP				
14066			00099		490		S	*823,99				
14078	31	00081	00000		500		TR	CUT&81#				
14090			00071		510		TF	0UT&47		UT&71#		
14102			14460		520		BNF	#824	_	#83XTU		
14114			00066		530		TF	OUTE47		UT&66#	<u> </u>	
14126 14138			00090 00089		540 550	BL1	BNR TF	BL2 OUT&59		UT&90# UT&89#		
14150			00036		560	OLI	TR	DUT		UT&36#		
14162			16065		570		TF	03TU0	, L			
14174			-0035		580		AM	<b>83TU</b>		5‡		
14186			14460	_ 13	590		BNF	<b>*</b> 824	<b>,</b> P	#83XTU		
14198			000-5		600		SM	OUTE6	, 5		,10‡	
14210			00006		610		TF	CUT&18		#63TU		
14222			000-1		620		SM	0UT&18	,1		,10‡	
14234			000L6		630		TFM B	PUTX-1,3 PUTX#	6,10	<del>*</del>	·	
14246 14254	49	14402	00000		640 650			*-3‡				
14254	44	14274	00094		660	BL2	BNF	<b>*</b> 820	• 0	UT&94#		
14266			00000		670		8	BL1#	, 0			
14274					680			<b>*-3</b> ‡				***************************************
14274			00 <b>0</b> P2		690		TFM	PUTX-1,7				
14286			16065		700		A	OUT&42	, L			
14298			16065		710		A	OUT 854	, <u>L</u>			
14310			00094		720		TF	0 <b>0T&amp;6</b>		UT&94#	•	
14322 14334			00084		730 740		TF TF	0UT&11 0UT&35		UT&84# UT&89#		
14334			14460		750		BNF	#836		#83XTU		
14358			000-5		760		SM	OUT & 42	, 5		,10‡	
14370			000-5		770		S№	0UT&54	, 5		,10‡	
	· · · · · · · · · · · · · · · · · · ·											U
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	N C	P_	P/L	<u> </u>	PG LN	¥	LABEL	MINEN	OPERANDS	AND REMARKS	PAGE	26
1438			14452		13 78			BNF	PUTX	+0UT&35#		
1439			C0042		13 79			SM	0UT&42	<b>,</b> 12‡		
1440			C0054		13 80			SM	0UT&54	<b>,</b> 12‡		
1441			00024		13 81			TR	CUT&24	+0E3TUO.		
1443			14451		13 82			TFM	PUTX-1,60	,10#		······································
1444		9	14452	00000	13 83			8	PUTX#			
1445					13 84			DORG				
1445			14452		13 85		PUTX	CF	**			
1446			14485		13 86			TF	PUTPHI-1,			
1447		9	14498	00000	13 87			В	PUTPHIE12	<b>‡</b>		
1448			1//50	00000	13 88		DUEDINE	DORG				
1448			14452		13 89		PUTPHI		PUTX#	UCD 4 C C 7 C 4		
1449			14564		13 90			CM	PUTTD&6,B	OFBASE 15#		
1451			14632		13 91			BNL	DUMP#			
1452			14558		13 92			BNF	*£36,PUTX			
1453			00000		13 93			TD	CUT	,PHI+		
1454			16682		13 94 13 95		PUTTD	TR	PHI, PHI&1 BUFBAS	<del>*</del> •0UT	•2 <b>‡</b>	
1455			J6524				PULL	TD			9 Z <del>+</del>	
1457			00000 16065		13 96			TR AM	OUT L,1#	,0UT&1#	<del></del>	
1458					13 98				PUTTD&6,1	+		
1459 1460			14564 14485		13 99			AM SM	PUTPHI-1,			
1461			14498		14 00			BP	PUTPHIE12			
1463			00000		14 0			BB	‡	<u> </u>		
1463		2	00000	00000	14 02			DORG	=			
1463			14564	16526	14 03		DUMP	TFM	PUTTDE6,B	HERAC+		
1464			14668		14 04		DOMF	BD	*824,SKPP			
1465			16519		14 05				LOAD-4#	CIIT		
1466			16523		14 06			TF	LOAD,L#			
1468			14522		14 0			В	PUTPHIE36	±		
1.468		,	17722		14 08			DORG				
1468		3	-0000	-0000	14 0		SUBI	MM	••27 <b>‡</b>		· · · · · · · · · · · · · · · · · · ·	
1470			00096		14 10		30,71	SF	96 <b>‡</b>			
1471			-0099		14 1			A .	99,,27#			
1472			-0071		14 12		•	TEM	71,,27#			
1473			-0070		14 1.			S	70,99,27#			
1474		-	1	00,,	14 14			DC	1,2+			
1475		3	16216	000-0	14 1		BGC	CF	BRINST&2.	•10 <b></b>		
1476			00089		14 10			TR	89, BRINST			
1477			00096		14 1			TR	96, CRAM-4			
1478			88000		14 1			TF	88, LODER#			
1479			00084		14 1		COMGO	CF	84‡			
1481				J6674	14 2			CM	GCER&6	,IMAGE8754	ŧ	
1482			14882		14 2			BL	GCER#			
1483			14858		14 2			BC	*824,SKPP	CH#		
1484			16599		14 2				IMAGE#			
1485				J6599	14 2			TFM	GOER&6.IM	AGE#		
1487			16599		14 2			TDM	IMAGE+			
1488			1		14 2			DC.	1, â, * +			
1488		1	J6599	00084	14 2		GOER	TR	IMAGE	, 84	, 2‡	
1489			00079		14 2			TOM	79‡			
1490			1		14 2	90		DC	1,2,*+			
1490		1	14888	<u> ∸CC15</u>	14 3			ΔM	<b>*</b> −18	<b>,</b> 15# -	· _ · · · · · · · · · · · · · · · · · ·	
			00000		14 3	10		ВВ	#			
149									· ·			
1491 1492					14 3	20		DORG	*-9‡			

LOCTN	GP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 27
14920	43	14988	00700	14	330	PUTOMG	BD	*E68,FLAGSW*
14932		14950			340		AM	*818,2‡
14944		00000			350	PUTOMH	TF	,CHI+
14956		11453			360		TF	OMM1,CHI+
14968	31	17172	17174	14	370		TR	CHI-1, CHI & 1 +
14980	49	11492	00000	14	380		В	S <b>‡</b>
14988					390			#-3#
14988		17173			400		SF	CHI+
15000		00700			410		TDM	FLAGSW#
15012	49	14932	00000		420		В	PUTOMG&12#
15019					430			*-4‡
13605		5	14171		440	OP	DS	5,C&11‡
15020		13605			460	CEXP	TFM	OP, AFXP +
15032 15041	1/	12862	000-0		470	ACC	BTM DS	CODE,,10‡ 3 ,#-2‡
15041	1.5	3 16130	00001		475 480	ACC	TDM	3 ,#-2‡ USEDFS&44 ,1‡
15056		16128			490		TDM	USEDFS&42,1#
15068		15092			500		BNF	*624, INST2614#
15080		13605			510		AM	OP,5,10‡
15092		15220			520		BNF	CEXPA, INST2&13#
15104		15376			530		TR	TEMP, INST187#
15116		12838			540		TFM	INST1&14,,8‡
15128		12830			550		TF	INST186 , INST2811‡
15140		12835			560		TFM	INSTIGIL ,FAC+
15152	27	13906	13905	14	570		вт	PUT1,PUT1-1#
15164	31	12831	15376		580	,	TR	INST187, TEMP#
15176		12830			590		TF	INST186,TFFAC+
15188		15296			600		BNF	CEXPB, INST1&13#
15200		13906			610		BT	PUT1, PUT1-1+
15212	49	15232	00000		620		В	CEXPA&12‡
15220					630			#-3#
15220		15296			640	CEXPA	BNF	CEXPB, INST1613#
15232		15276			650		BNF	CEXPC, INST1814+
15244		12835			660	CCVDD	TF	INST1611,RVINST611#
15256		13607 13594			670 680	CEXPD	TFM B	COMMON&1,27,1011‡
15268 15276	49	13394	QUUCU.		690			±−3‡
15276	1.6	13607	OCOM I		700	CEX'PC	TFM	COMMON&1,41,1011#
15288		13594			710	CEXIC	В	C‡
15296		13371	00000		720			#-3#
15296	44	15256	12838		730	CEXPB	BNF	CEXPD, INST1814#
15308		15376			740		TR	TEMP, INST2+
15320		12852			750		TF	INST2&12,RVINST&12+
15332		13906			760		вт	PUT1,PUT1-1#
15344	27	13926	13925		770		BT	PUT2, PUT2-1#
15356		12840			780		TR	INST2,TEMP#
15368	49	15276	00000		790		В	CEXPC+
15376					800			<b>*</b> -3 <b>*</b>
15376		1			810	TEMP	DS	1‡
15391		15			820		DS	15‡
15392		12862			830	CFCT	BTM	CODE,,10#
15404		12846			840		TF	INST286, INST1811#
15416		17170			850		TR	CHI-3, CHI-1‡
15428 15440		15520 15576			860		BNF BNF	CFCTA, INST2&14+ CFCTB, INST2&13+
13440	44	19910	17000	14	870		DINE	CICIDY INSTAULS+
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	LOCIN	CP	P/L	Q	P G	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 28
	15452	44	15476	12838	14	880		BNF	*824, INST1814+
	15464		00700			890		TDM	FLAGSW,2‡
	15476		13607			900		TFM	COMMON&1,27,1011#
	15488 15500		12824 12851			910 920		TR TFM	INST1,RVINST# INST2&11,FAC#
	15512		13606			930		В	COMMON#
	15520	7,	13000	00000		940		-	*-3 <b></b>
	15520	44	15644	12853		950	CFCTA	BNF	CFCTC, INST2&13#
	15532		13607			960		TFM	COMMONE1,41,1011#
	15544		15500			970		BNF	CFCTA-20, INST1814#
	15556		00700			980		TDM	FLAGSW,2*
	15568	49	15500	00000		990 000		B	CFCTA-20‡ #-3‡
	15576 15576	44	15600	12838		010	CFCTB	BNF	#624, INST1614‡
	15588		00700			020	0,015	TDM	FLAGSW, 2‡
	15600		12830			030		TF	INST186, TFFAC+
	15612		12831			040		TR	INST1&7, INST2&7#
	15624		13906			050		BT	PUT1,PUT1-1+
	15636	49	15476	00000	15	060		B	CFCT&84‡
	15644	1.	12/07	00081		070	CECTC	TFM	#-3‡ COMMON€1,41,1011‡
	15644 15656		13607 13606			080	CFCTC	BNF	COMMON, INST1614#
	15668		00700			100		TDM	FLAGSW, 2*
	15680		13606			110		В	COMMON#
	15687					120		DORG	<b>*-4</b> ‡
	15688		15779			130	FIX	TFM	TWAGSE11,FIX2+
	15700	49	15720	00000		140	· · · · · · · · · · · · · · · · · · ·	8	*820‡
	15708	1.	15770	1/220		150	CLOAT		#-3‡
	15708 15720		15779 15813			160 170	FLOAT	TFM TFM	TWAGS&11,FLOAT2
	15732		00696			180		CF	EQSW#
	15744		15376			190	FOF	TR	TEMP, INST167#
	15756		12831			200		TR	INST1&7, INST2&7‡
	15768		12840			210	TWAGS	TR	INST2,FIX2‡
	15780		15800			220	<del> </del>	BNF	*820, INST1813‡
	15792	49	15812	00000		230		В	±620± ±−3±
<del></del>	15800 15800	27	13906	13905		240 250	SSBCD	BT	PUT1, PUT1-1‡
	15812		13926			260	33000	NOP	PUT2, PUT2-1#
	15824		15860			270		BNF	*&36, INST1&14+
	15836	31	12840	16254	15	280		TR	INST2,RVINST#
	15848		13926			290		ВТ	PUT2,PUT2-1#
	15860		12831			300	· · · · · · · · · · · · · · · · · · ·	TR	INST187, TEMP#
	15872		16011			305 310		TR TF	TRAREC&1 ,INST1&7 + INST1&6 ,INST1&11 +
	15884 15896		12830 12835			320	<del></del>	TFM	INST1811 ,FAC+
	15908		15813			330		TEM	SSBCD&13 ,41 ,10#
	15920		15940			350	TRACE	NOP	#620 ,EQSW#
	15932		15960		15	360		В	ZOT‡
	15940		-			370			<b>*</b> -3 <b>‡</b>
	15940		12824			380	·	TR	INST1 ,TRAREC-6#
	15952	49	15972	00000		390		В	ZOT&12#
	15960 15960	27	14460	00000		400 410	ZOT	SF	#-3# PUTX&8#
_	15972		13906			420	201	BT	PUT1 ,PUT1-1+
	2/16	<u> </u>	12700	10,00					
									208
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LCCTN	CP	P/L	- Q	PC	LN	LABEL	MNEM	OPERANDS	AND	REMARKS	P	AGE	29	
15984		14460		15	430		CF	PUTX&8#						
15996	49	06724	CCCCC		450		В	TESTDO#						
16004				15	460		DORG	*-3+						
16005		2		15	470		DC -	2,17‡						
16010		00005	-2586	15	480	TRAREC	DSA	TRACX#						
16015		5		15	490		DC	5,-90500	<b>}</b>					
16019		4		15	500		DC	4, a+						
16020	16	13605	J6055	15	51C	FXEXP	TFM	CP,*&35#						
16032		11527			520		TOM	FXORFL+						
16044	49	15068	-20CC	15	530	1	В	CEXP&48,	AXI	,7‡				
16060		00005	-19C		540		DSA	FAXIN#						
16065		. 5			550	L	DS	5‡						
16065		1			560		DC	1,0#						
16071		5		15		LODER	DS	5‡						
16072		1			580		DC	1,0#						
02452				15		STOPSR				452‡				
02562					600	ENDSR	DS			562‡				
02586				15		TRACX	DS			586‡		-		
02000					620	FAXI	DS			C00#				
01964				15		FAXIN	DS			964‡				
03914					640	COMPLT				914	7			LAST+
02834				-	650	RATY	DS		-	834‡				
02798				15		RACD	DS			798‡				
02882				15		WACD	DS		-	882#				
02918					680	WATYSC				918#				V. A. T. V.E.
02954					690	WATY	DS			954	7			WATYE
03938				15		SWC	DS			938				NUMBE
02726				15		LTPAR	DS			726‡				U
03574	·				720	RTPAR	DS			574‡				
03690					730	HTYPE	DS			690#				
03654					740	XTYPE	DS			654 <b>‡</b>				
03298				15		SLASH	DS			298‡				
00696					770	EOSW	DS DS			A&2#				
00697					780	FSTSW	DS			A&3+				
00698					790	SBSWCH				A&4#				
00699		,			800	DMSWCH FLAGSW				A&5# A&6#				
00700					810 820	DOSWCH				A&7#				
00701					830	IFSWCH				#83A				
00702					860	FRMSCT	mean reference on the course of the	6,FORMAT		AGUT				
16075		6			870	USEDES		1,0#	Ť.,	•				
16086		49			880	USEDIS	DC	49,0#						
16135		1			890		DC	1,0+						
16136 02298					900	FIX1	DS			298‡				
02392					910	FLOATI				392‡				-
00060					920	FAC	DS			0‡				
CC48C					930	FAD	DS			80‡				
16141		5			940	AFAD	DC	5		ŧ0 <b>‡</b>		<u> </u>		
16141		5 5			950	AFSB	DC			20‡				
16151		5			960	AFMP	DC	5		128‡				
16151		. 5			9.70		DC	5		128#				
16161		5			980	AFDV	DC	5		382#				
16166		5			990	AFDVR	DC	5		346‡				
16171		5			000	AFXP	DC	. 5		188‡				
16176		5			010	FAXBN	DC	5,		2152#				
10110								and the second s						

LOCTN	CP	P/L	Q	PG LN	LABEL	MNEM	OPERANDS	AND REMARKS	PAGE	30
16181		5		16 020	FXA	DC	5	,1614‡		
16186		5		16 030	FXS	DC	5	<b>,</b> 1590‡		
16191		5		16 040	FXM	DC	5	,1644‡		
16196		5		16 050		DC	5	,1644#		
16201		5		16 060	FXD	DC	5	,1722‡		
16206		5		16 070	FXDR	DC	5	,1686#		
01816				16 080	RVSGN	DS	0	,1816‡		
16213		7		16 090	TFFAC	DC	7	,2600060#		
16214	M9	00000	00000	16 110	BRINST	8	••0±			
16221		1		16 120		DC	1,0,*-4+			
16222				16 130		DORG	<b>*</b> -3 <b>‡</b>			
16222		02298	02297	16 140	FIX2	BT	FIX1,FIX	l-1,0#		
16237		4		16 150		DC	4, @ +			
16238		02392	02391	16 160	FLCAT2		FLOAT1.FL	OAT1-1,0#		
16253		4	02372	16 170		DC	4,0+	, •		
16254		01816	01815	16 180	RVINST		RVSGN, RV	SGN-1.0#		
16269		4	01012	16 190		DC	4,@#			
16278		9		16 200		DC	9, 6#			
16279		í		16 210	CRAM	DC	1, a +			
16280		240	00000	16 350	LRCUT	TDM	240	· · · · · · · · · · · · · · · · · · ·	•23 <b>‡</b>	
16291		1	00000	16 360	2	DC	1,2,**	•	•	
16292		08000	00500	16 370		RNCD				
16304		00104		16 380		В	104#			
16312		00104	00000	16 390			<b>*</b> -3 <b>*</b>			
16312		00092	00161	16 400		BNF	92	,161‡		
16324		00104		16 410		В	104#	71017		
16336		00074		16 420		TE	74	,164‡		
16348		00000		16 430		TF		,174‡		
16360		-0160		16 440	LROUT2		160	,175	<b>,</b> 2 <b>‡</b>	
16372		00056		16 450	LNUUIZ	BNR	56	,160‡	72.7	
				16 460		RNCD	160#	<b>,</b> 100+		
16384		00160					32,160‡			
16396		00032		16 470		BNF				•
16408			00164	16 480		TF	146,164#			
16420		00000		16 490		TR	,165#	0 74		
16432		00104	00000	16 500		B	104,6000	U, 17		
16440				16 510			*-3 <b></b>	CCINC CONDIC	<b>ナ</b> にヘエ	
16441		20		16 520		DAC		SSING COMPLE	IE W Ŧ	
16481		6		16 530		DAC	6	,START@#		
16493		8		16 540		DAC	8,0VERL			
00000				16 550		DS	. 100000	,0‡		
16513		6		16 570			6,19999@	F ·		<del></del>
16518		5		16 580	FCTEND		5‡			
16523		5		16 590		DS	5‡			
16524		1		16 600			1#			
16598		74		16 610		DS	74‡			
16599		1		16 620		DS	1 ‡	•		
16678		79		16 630		DS	79‡			
16682		. 4		16 640		DS	4‡			
17142	)	460		16 650		DS ·	460‡			
17143		1		16 660	SYM	DS	1‡			
17153		10		16 670		DS	10#			
17155		1		16 672		DAS	1#			
		16		16 680		DC	1.6	,507070707	00000	
1/1/1										
17171 17173		80		16 690	CHI	DAS	<b>*0</b>			

	LCCTN	GP P/L	Q	PG	LN	LABEL	MNEM	OPERANDS AND REMARKS PAGE 31
	ı							
	17344	15 CCCCC	00000		990		TDM	‡ 12 - 14
	17354	1 10000	17252		010		DC TR	1,a,+-1+ 19999,+-3,2+
· · · · · · · · · · · · · · · · · · ·	17356 17368	31 J9999 45 17332			020		BNR	LAST#
	17380	26 16512			030		TF	MEMCAP-1, #-18#
	17392	26 16518			040		TF	FCTEND, MEMCAP-1+
	17404	37 17789			050		RACD	
	17416	25 17768			060		TD	NO-3,CCD#
	17428	25 17769	17791		070		TD	NO-2,CCD&2‡
	17440	25 17770			080		TD	NO-1,CCD&4+
	17452	25 17771			090		TD	NO,CCD&6‡
	17464	31 17788			100	TRY	TR	CCD-1,CCD&7‡
	17476	14 17771			110		CM	NO‡
	17488	46 17700			120		BE	CHIGO\$
	175CC	45 17524			130	<del></del>	BNR	#&24,CCD&8‡ CCD‡
	17512	37 17789 16 17959			140 150		RACD TFM	CCC&8,,9‡
	17524 17536	26 17957			160		TF	CCC&6,CCD&6‡
	17548	26 17566			170		TF	#618,FCTEND#
	17560	26 C0000			180	***	TF	,CCC88‡
	17572	12 16518			190	•	SM	FCTEND, 10, 10 +
	17584	16 17619			200		TFM	*&35,CCC-3*
	17596	11 17619			210		AM	<b>*</b> £23,2,10 <b></b> ‡
	17608	43 17596			220		BD	*-12,CCC-1*
	17620	26 17638			230		TF	<b>*818,*-1*</b>
	17632	31 00000		17	240		TR	•FRECK+
	17644	26 17662			250		TF.	#E18,FCTEND#
	17656	26 00000			260		TF	,CCC&8 <b>‡</b>
	17668	12 16518			270		SM	FCTEND, 10, 10 +
	17680	12 17771			280		SM	NO,1,10‡
<del></del>	17692	49 17464	00000		290			TRY+
	17700	14 17170	000		300	CHICO		#-3‡ CUT 2104
	17700	16 J7173	000-0		310	CHIGO	TFM	CHI,,210‡
	17711	11 17704	000-2		320 330		DC AM	1,a,** *-6,2,10*
	17712 17724	11 17706 14 17706			340		CM	#-0,2,10+ #-18 ,LAST#
	17736	47 17700			350		BL	CHIGO#
	17748	15 00079			360		TDM	OUT 679#
	17759	1 00073	2000		370		DC	1,3,**
	17760	49 08010	00000		380		В	MOON7‡
	17767				390			#-4‡
	17771	5		17	400	NO	DC	5,0‡
	17772	1			410		DS	1+
	17774	46 00000	00000		420	FRECK	BI	#
	17786	1	<del></del>		430		DC	1,2
	17789	4			440	CCD	DAC	4, AAAA‡
	17797	4			450	······	DAC	4,AAAA‡
*	17805	4			460		DAC	4.AAAA‡
	17813	4			470		DAC	4, AAAA‡
	17821	4			480		DAC	4,AAAA
	17829	4			<u>490</u> 500	· · · · · · · · · · · · · · · · · · ·	DAC	4,AAA+
	17837 17845	4			500 510		DAC DAC	4,AAAA‡ 4,AAAA‡
	17853	. 4			520		DAC	4,AAAA‡
	17861	. 4			530 530		DAC	4,AAAA‡
	11601	<u> </u>		1!	טננ		UAL	TIMMAT

LCCTN	CP	P/L	Q	PG	LN	LABEL	MNEM	OPERANDS	AND	REMARKS	PAGE	32
17869		4		17	540		DAC	4 <b>,</b> AAAA‡				
17877		4		17	550		DAC	4,4444				
17885		4		17	560		DAC	4,AAAA‡				
17893		4		17	570		DAC	4, AAAA‡				
17901		4			580		DAC	4,AAAA‡			<u> </u>	
17909		4			590		DAC	4,AAAA+				
17917		4		17	600		DAC	4,AAAA‡				
17925		4			610		DAC	4,AAAA+				•
17933		4			620		DAC	4,AAAA‡				
17941		4			630		DAC	4, 4444				
16071					640	SYMBSB		,LODER#				
17949		1			650	TOD	DAC	1,0+			•	
17132				1/	660	TOP	DS	,PHI &450+				
17951		6			670	CCC	DAC	6,AAAAAA				
17344				<u> </u>	680		DEND	LAST&12#				
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14475	ACC	10840		<u> 13070</u>								
06985	AD	06895										
06925	ADR			07065	07135		··	·				L
15940	AFAD	12440	12770									
15980	AFCV	12890										
15990	AFDVR											
15960	AFMP	12860	<del></del>									
15950	AFSB											
16000	AFXP	14460	21150	02040								
10830	ASCAN		01150	03940								
00854	AVOID	01050	00300	00230	15770	15700	15700	15000	15010	15020	15020	
00310	BA									15820		
08000	BEGIN					05510				02340	03220	
05040	מכחרכ			03010	05140	03310	05620	03070	00,00			
05860	BEREC	05360		02240	03360	05440	05440					
14150 07045	BGO	06925		UZZOU	02200	05660	<b>U</b> ODE U					
01200	BLKST BLNK1			01020	01040							
01200	BLNK1	01210	01010	01020	01040							
13550	BLINE	13670			···········							
13660	BL2	13540										
00390	BRC		02060	02330	03210	03210	· · · · · · · · · · · · · · · · · · ·					
13020	C			1444C								
12440	CADD			12840	11000		*					-
12540	CADDB			12940					,			
12510	CADDC	12550								···········		
12570	CADDD	12540										
12600	CADDH	12460						·				_
12500	CADDI		12680	12960								
12660	CADDJ			12710								
12700	CADDK	12470					•					1
12730	CAUDL	12700										1
17670	CCC	17150	17160	17180	17200	17220	17260					
17440	CCD	17050	17060	17070	17080	17090	17100	17100	17130	17140	17160	
12890	CDIV	11780	12870									
14460	CEXP	11820	15530							×		
14640	CEXPA	14520	14620									
14730	CEXPB	14600	14640	•							*	
14700	CEXPC	14650	14790									
14670	CEXPD	14730										
14830	CFCT		15060									
14950	CECTA		14970	14990								
15010	CFCTB	14870										
15080	CFCTC	14950			1			·	0127	0.5000	0.500	
08670	CFXN	00630	01920	02650	02780	03460	04600	04770	04980	05200	05780	
		06550	08410	08470	08780	08790	03810	08840	08870	10530		
03300	CHCHI					02710	02730	02750	02750	02770	03070	
	*			03470							22224	
16690	CHI									00335		
										00610		,
		00970	01060	01200	01200	01240	01270	01290	01310	01330	01534	
		01350	01370	01420	01440	01460	01480	01510	01530	01550	01700	
		01591	01595	01595	01600	01630	01630	01640	01560	01660	01700	
		01700	01740	01750	01750	01800	01800	01810	01830	01830	01890	
		01990	02020	02030	02030	02050	02120	02200	02310	02310	02320	
		02360	02380	02400	02490	02510	02530	02550	02570	02600	02630	
		02650	02650	02/20	02740 03500	02740	02160	02990	03060	03240	03210	
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			04940	04940	04950	05060	05060	05100	05140	05140	05750	05750
			05760	06450	06450	06510	06510	06580	08070	08270	08351	08400
				08430								
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				14350								15170
17	310	CHIGO	17120		14300	14310	14310	14100	14000	14000	11310	
	085	CKF		06945	07625	07055						
				12920	01023	0101.7						
	980	CMDA										
	940	CMDB	12980	13000								
	000	CMPAR	09520									
	860	CMULT	11800									
	260	CODA	12220									
	40C	CONC	12280									
	2370	CODD	12310		10775	10000	3		•			
	200	CODE		12450	12780	12900	14470	14830				
	2360	CODE	12420									
	190	COMGO		05470	08040	08040						
03	385C	COMM	01390									
	670	COMP		07850	07890	07900	07910	07940	<u>07950</u>	08100	08130	08150
	1591	CONIO	02060									
	210	CRAM		05460					14170			
09	010	CS		03870								
08	3890	CSORN	02090	02970	03300	04670	04760	05150	06790	08290	08870	10180
			11180	13080								
12	2770	CSUB	11760									
12	283U	CSUBA	12790									
	2830 3810										=	
03	3810	DIM	01320	······································		<del></del>					-	
03 08	3810 3420	DIMA DIMA	01320 08370	08380	08660				<del></del>			<del>*</del>
03 80 80	3810 3420 3520	DIMA DIMA DIMB	01320 08370 08356	08380 08450	08660						-	
03 08 08 08	3810 3420 3520 3650	DIMA DIMA DIMB	01320 08370 08356 08354	08380 08450	08660						-	
03 08 08 08	3810 3420 3520 3650 3350	DIMA DIMA DIMB DIMC DMM	01320 08370 08356 08354 03050		08660						-	
03 08 08 08 08	3810 3420 3520 3650 3350 4590	DIMA DIMB DIMC DMM DO	01320 08370 08356 08354 03050 01180	08450		04820	0.00	04870				
03 08 08 08 08 04	3810 3420 3520 3650 3350 4590	DIMA DIMB DIMC DMM DC DSADC	01320 08370 08356 08354 03050 01180 04700	08450 04710	04720		04860	04870				
03 08 08 08 08 04 04	3810 3420 3520 3650 3350 4590 4920	DIMA DIMB DIMC DMM DO DSADC DUMP	01320 08370 08356 08354 03050 01180 04700 06680	08450 04710 06690	04720 06710	13910	04860	04870				
03 08 08 08 08 04 04 14	3810 3420 3520 3650 3350 4590 4920 4030 2820	DIM DIMA DIMB DIMC DMM DO DSADO DUMP EFIND	01320 08370 08356 08354 03050 01180 04700 06680 02540	08450 04710 06690 02620	04720 06710	13910	04860	04870				
03 08 08 08 04 04 14 02	3810 3420 3520 3650 3350 4590 4920 4030 2820	DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810	08450 04710 06690 02620	04720 06710 02700	13910 03450	04860	04870				
03 08 08 08 04 04 14 02 04	3810 3420 3520 3520 3350 4590 4920 4030 2820 4730 4870	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862	08450 04710 06690 02620	04720 06710 02700	13910 03450	04860	04870				
03 08 08 08 04 04 14 02 04 04	3810 3420 3520 3550 3350 4590 4920 4030 2820 4730 4870	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530	08450 04710 06690 02620	04720 06710 02700	13910 03450	04860	04870				
03 08 08 08 04 04 14 02 04 04	3810 3420 3520 3550 4590 4920 4030 2820 4730 4870 5660	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR	01320 08370 08356 08354 03050 01180 04700 06680 02540 04862 01530 06630	08450 04710 06690 02620 05970	04720 06710 02700	13910 03450	04860	04870				
03 08 08 08 04 04 14 02 04 04 06 15	3810 3420 3520 3650 3350 4590 4920 4030 2820 4730 4870 5660 5660	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06630 06420	08450 04710 06690 02620	04720 06710 02700	13910 03450	04860	04870				
03 08 08 08 04 04 14 02 04 06 15	3810 3420 3520 3650 3350 4590 4920 4030 2820 4730 4870 5660 5660 5630 5520	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC	01320 08370 08356 08356 03050 01180 04700 06680 02540 04862 01530 06630 06420 07580	08450 04710 06690 02620 05970	04720 06710 02700 05930	13910 03450 07660						
03 08 08 08 04 04 14 02 04 06 15	3810 3420 3520 3650 3350 4590 4920 4030 2820 4730 4870 5660 5660 5630 5520	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EGSW	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06630 06420 07580 10960	08450 04710 06690 02620 05970	04720 06710 02700 05930	13910 03450 07660						
03 08 08 08 04 04 14 02 04 06 15 06 16	3810 3420 3520 3650 3350 4590 4920 4030 2820 4730 4870 5660 5660 5630 5770 5990	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EGSW EQ2	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06630 06420 07530 10960 11040	08450 04710 06690 02620 05970	04720 06710 02700 05930	13910 03450 07660						
03 08 08 08 04 04 14 02 04 06 15 06 16	3810 3420 3520 3650 3350 4590 4920 4030 2820 4730 4870 5660 5660 5630 5520	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EQSW EQ2 EQ3	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06630 06420 07530 10960 11040	08450 04710 06690 02620 05970	04720 06710 02700 05930	13910 03450 07660						
03 08 08 08 04 04 14 02 04 06 15 06 16	3810 3420 3520 3650 3350 4590 4920 4030 2820 4730 4870 5660 5660 5630 5770 5990	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EGSW EQ2	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06630 06420 07580 10960 11040 10990 11000	08450 04710 06690 02620 05970 06660 11010	04720 06710 02700 05930	13910 03450 07660 15180	15350					
03 08 08 08 04 04 14 02 04 06 15 06 16	3810 3420 3520 3550 3550 4590 4920 4030 2820 4730 4870 5660 5630 5520 5770 5990 1070	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EQSW EQ2 EQ3	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 06630 06420 07530 10960 11040 10990 11000 01260	08450 04710 06690 02620 05970 06660 11010	04720 06710 02700 05930 11210	13910 03450 07660 15180	15350		04120	04660	08090	08610
03 08 08 08 04 04 14 02 04 06 15 06 16	3810 3420 3520 3550 3550 4590 4920 4030 2820 4730 4870 5660 5630 5520 5770 5990 1070 1110	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EQSW EQ2 EQ3 EQ4	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06420 07530 10960 11040 10990 11000 01260 09780	08450 04710 06690 02620 05970 06660 11010	04720 06710 02700 05930 11210	13910 03450 07660 15180 02980 10940	15350		04120	04660	08090	08610
03 08 08 08 04 04 14 02 04 06 15 16 11 11	3810 3420 3520 3550 3550 4590 4920 4030 2820 4730 4870 5660 5630 5520 5770 5990 1070 1110	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EQSW EQ2 EQ3 EQ4	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06420 07530 10960 11040 10990 11000 01260 09780	08450 04710 06690 02620 05970 06660 11010	04720 06710 02700 05930 11210	13910 03450 07660 15180 02980 10940	15350		04120	04660	08090	08610
03 08 08 08 04 04 14 02 04 06 15 10 11 11	3810 3420 3520 3550 3550 4590 4920 4030 2820 4730 4870 5660 5630 5520 5770 5990 1070 1110	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EQSW EQ2 EQ3 EQ4 ERROR	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06420 07530 10960 11040 10990 11000 01260 09780	08450 04710 06690 02620 05970 06660 11010	04720 06710 02700 05930 11210	13910 03450 07660 15180 02980 10940	15350		04120	04660	08090	08610
03 08 08 08 04 04 14 02 04 06 15 10 11 11 10	3810 3420 3520 3550 3550 4590 4920 4030 2820 4730 4870 5660 5630 5520 5770 5990 1070 1110 5740	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EQSW EQ2 EQ3 EQ4 ERROR ER1 ER6	01320 08370 08356 08354 03050 01180 04700 06680 02540 04810 04862 01530 06420 07530 10960 11040 10990 11000 01260 09780 01540	08450 04710 06690 02620 05970 06660 11010	04720 06710 02700 05930 11210	13910 03450 07660 15180 02980 10940	15350		04120	04660	08090	08610
03 08 08 08 04 04 14 02 04 06 15 10 11 11 10 04	3810 3420 3520 3550 4590 4920 4730 4870 5660 5630 5520 5770 0990 1070 1110 0740 4020 4120	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EQSW EQ2 EQ3 EQ4 ERROR ER1 ER6 ER7	01320 08370 08356 08354 03050 01180 04700 06680 02540 04862 01530 06420 07530 10960 11040 10990 11000 01260 09780 01540 09830 11640 08150	08450 04710 06690 02620 05970 06660 11010 01910 10720 01592	04720 06710 02700 05930 11210 02470 10740 11390	13910 03450 07660 15180 02980 10940 11610	15350 03310 12360	04020				
03 08 08 08 04 04 14 02 04 06 15 10 11 11 10 04	3810 3420 3520 3550 3550 4590 4920 4030 2820 4730 4870 5660 5630 5520 5770 5990 1070 1110 5740	DIMA DIMA DIMB DIMC DMM DO DSADO DUMP EFIND ELL EMM END ENDSR ENDX EOC EQSW EQ2 EQ3 EQ4 ERROR ER1 ER6	01320 08370 08356 08354 03050 01180 04700 06680 02540 04862 01530 06420 07530 10960 11040 10990 11000 01260 09780 01540 09830 11640 08150	08450 04710 06690 02620 05970 06660 11010	04720 06710 02700 05930 11210 02470 10740 11390	13910 03450 07660 15180 02980 10940 11610	15350 03310 12360	04020				

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01990	I C 2			02040								
01240	ISITF	01090				•			· · · · · · · · · · · · · · · · · · ·			
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05210	KK									05330		
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15550	L.	03180	04290						05420	05480	05650	
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16590	LCAD			14050								
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09370	NUMB1					09360		09430				
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03320	RPEMT		03370	03410	<u>035</u> 10							
0339C	RPTI	03320										
	RPT1 RPT2	03390										
03390								· · · · · · · · · · · · · · · · · · ·				

10870	- S		11480			13300	14380			-	
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07780	SMTLU		08880			09810	09830	13090		*	
0810C	SMIST		07940	09940	09970	·					
11730	SS		11440								
11150	AZZ		11380			·			· · · · · · · · · · · · · · · · · · ·		
1095C	SSB	10890									
15250	SSBCD		15330								
11650	SSC		13180								
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12000	SSCB	11680									
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11830	SS6	11360									m
06450	STOP	01470									
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02470	SWLP		02410			-					
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	05030	COMPUT	4960 05100	
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	03120	FINISH	3090	
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	1618C	RVINST	<u> 4200 14660 14750 14910 1528</u> 0	0

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	060	SDECOD		01594	02075	02075							4
	070	SKPPCH	00060	00140	00338	06750	06910	07410	10760	14040	14220		•
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	840	SMTLU1							04610	05220	05270	05310	
<u>U /</u>	840	SMILUI	05300	05500	05700	05000	04 9 3 0	06015	04010	07105	07125	07790	
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	840	TESAVE		11950	00200								
	480	TRAREC		15380			·····						
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